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Statistics

1978



Statistics

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A statistical supplement to the Annual Report of the Minister of Natural Resources for the year ending March 31, 1978

\$1.00



Ministry of
Natural
Resources

Hon. James A. C. Auld
Minister

Dr. J. K. Reynolds
Deputy Minister

Statistical Reports

Prepared by Branches

- 3 **Ministry of Natural Resources**
- 4 Ministry Regions and Districts
- 5 **Forest Resources Group**
- 5 Forest Resources Branch
- 13 Timber Sales Branch
- 21 **Mineral Resources Group**
- 21 Ontario Geological Survey
- 25 Mineral Resources Branch
- 33 **Outdoor Recreation Group**
- 33 Wildlife Branch
- 39 Provincial Parks Branch
- 47 Fisheries Branch
- 59 **Lands and Waters Group**
- 59 Lands Administration Branch
- 62 Surveys and Mapping Branch
- 63 Land Use Co-Ordination Branch
- 65 Engineering Services Branch
- 67 Conservation Authorities Branch
- 71 **Aviation and Fire Management Centre**
- 79 **Finance and Administration Group**
- 79 Financial Services Branch
- 83 Internal Audit Services Branch
- 84 Information Services Branch
- 85 Personnel Services Branch
- 87 Administrative Services Branch
- 89 Legal Services Branch
- 95 **Policy and Priorities Office**
- 97 **Regions and Districts**
- 97 Northwestern Region
- 98 North Central Region
- 99 Northern Region
- 100 Northeastern Region
- 101 Algonquin Region
- 102 Eastern Region
- 103 Central Region
- 104 Southwestern Region

MINISTRY OF NATURAL RESOURCES★

Hon. James A. C. Auld	Minister of Natural Resources.
Dr. J. K. Reynolds	Deputy Minister.
L. Ringham	Assistant Deputy Minister, Northern Ontario.** Northwestern Region North Central Region Northern Region Northeastern Region Aviation and Fire Management Centre
W. T. Foster	Assistant Deputy Minister, Southern Ontario. Algonquin Region Eastern Region Central Region Southwestern Region
A. J. Herridge	Assistant Deputy Minister, Policy and Priorities

MINISTERIAL AGENCIES

G. H. Ferguson, Q.C.	Mining and Lands Commissioner.
D. R. Wilson	General Manager, Niagara Parks Commission.
R. F. Harrison	General Manager, St. Clair Parkway Commission.
I. D. Bird	General Manager, Algonquin Forest Authority.
J. R. Sloan	General Manager, St. Lawrence Parks Commission.

*Main Office in Whitney Block, Parliament Buildings, Toronto, Ontario M7A 1W3.

**Box 5000, 435 James St. South, Thunder Bay 'F', Ontario P7C 5G6.

MINISTRY REGIONS AND DISTRICTS

—Areas in Square Miles*

NORTHWESTERN REGION

Dryden	4,618	
Fort Frances	4,188	
Ignace	4,426	
Kenora	5,478	
Red Lake	24,751	
Sioux Lookout	43,281	86,742
Pt. Rainy Lake	472	
Pt. Lake of the Woods	937	1,409
Total, Region		88,151

NORTHERN REGION

Chapleau	9,113	
Cochrane	11,859	
Gogama	2,993	
Hearst	9,747	
Kapuskasing	8,195	
Kirkland Lake	5,140	
Mooseeenee	83,298	
Timmins	3,050	133,395
Pt. Lake Abitibi	305	305
Total, Region		133,700

ALGONQUIN REGION

Algonquin Park ..	3,620	
Parry Sound	2,775	
Bancroft	1,683	
Bracebridge	2,492	
Minden	1,832	
Pembroke	2,821	15,223
Pt. Georgian Bay	1,496	1,496
Total, Region		16,719

SOUTHWESTERN REGION

Aylmer	2,599	
Chatham	2,853	
Owen Sound	3,018	
Simcoe	1,088	
Wingham	2,660	12,218
Pt. Lake Huron and Lake Erie	11,950	
Pt. Lake St. Clair	260	12,210
Total, Region		24,428

NORTH CENTRAL REGION

Atikokan	4,361	
Geraldton	43,546	
Nipigon	9,874	
Terrace Bay	4,893	
Thunder Bay	10,995	
White River	2,877	76,546
Lake Nipigon	1,933	
Pt. Lake Superior	7,363	9,296
Total, Region		85,842

NORTHEASTERN REGION

Blind River	3,674	
Espanola	3,677	
North Bay	4,119	
Sault Ste Marie ..	3,055	
Sudbury	4,913	
Temagami	2,647	
Wawa	5,824	27,909
Pt. Lake Huron and Lake Superior	8,589	
Lake Nipissing	315	
Lake Wahnapitae	56	8,960
Total, Region		36,869

EASTERN REGION

Brockville	1,350	
Cornwall	2,160	
Lanark	1,274	
Napanee	2,524	
Ottawa	1,149	
Tweed	2,504	10,961
Pt. Lake Ontario	1,673	1,673
Total, Region		12,634

CENTRAL REGION

Cambridge	2,757	
Huronia	2,529	
Lindsay	2,647	
Maple	1,858	
Niagara	1,031	10,822
Pt. Lake Ontario and Lake Erie	3,131	
Lake Simcoe	286	3,417
Total, Region		14,239

TOTALS

49 Districts	373,816	
12 Lakes	38,766	
Area of Ontario	412,582	

*December 12, 1973.
Surveys and Mapping Branch

FOREST RESOURCES GROUP

Room W-3610, Main Office. Telephone (416) 965-4319.

Executive Director	A. H. Peacock	W-3610 4319
Administration	L. P. Comeau	W-3607 2731
Program Analyst	F. E. Waghorne	W-3616 2785

FOREST RESOURCES BRANCH

Room W-3628, Main Office. Telephone (416) 965-2785.

Branch Director	W. K. Fullerton	W-3618 2787
Silviculture Section	C. J. Heeney	W-3620A . 2575
Harwood and Pine	J. C. Scott	W-3632 2575
Boreal Forest	F. C. Robinson	W-3621 2575
Environment	A. Van Frassen	W-3621A .. 2575
Tree Seed Improvement	C. H. Lane	W-3623 2575
Planting Stock	K. H. Reese	W-3623A .. 2575
Advisory Services Section	(Vacant)	W-3613 2785
Forestry Extension Services	J. F. W. Gourlay	W-3613A .. 2785
Silvicultural Assessment	M. Chaudhry	W-3615A .. 2785
Agreement Administration	A. H. Cooper	W-3630 2785
Special Products	A. E. Danes	W-3615 2785
Forestry Extension Specialist	(Vacant)	W-3612 2785
Audit Co-ordinator	D. Holder	W-3631 2785
Pest Control Section	J. R. Carrow	W-3618 2785
Entomology	C. S. Kirby	(Maple) 832-2761
Pathology	B. H. McGauley	(Maple) 832-2761
Vegetation Control	R. A. Campbell	(Maple) 832-2761
Pesticide Applications	S. A. Nicholson	(Maple) 832-2761

ONTARIO FOREST RESEARCH CENTRE

Maple, Ontario L0J 1E0

Telephone (416) 832-2761

Head	Dr. D. Burger	Extension 317
Tree Breeding		
Poplar, soft pines	Dr. L. Zsuffa (Leader)	Extension 295
Spruce	R. Marie Rauter	Extension 295
Hard pines	G. Buchert	Extension 249
Silviculture & Tree Biology		
Frost hardiness and dormancy	Dr. C. Glerum (Leader)	Extension 316
Hardwood quality	H. W. Anderson	Extension 312
Root development	Dr. D. C. F. Fayle	Extension 332
Southern Ontario hardwoods (uplands)	P. Jaciw	Extension 284
Southern Ontario hardwoods (lowlands)	H. C. Larsson	Extension 264
Seed	D. A. Skeates	Extension 305
Silviculture	G. Stroempl	Extension 311
Development	V. H. H. Williamson	Extension 301
Site and Productivity		
Moisture	G. Pierpoint (Leader)	Extension 331
Mensuration	A. F. Beckwith	Extension 265
Tree nutrition	R. H. Leech	Extension 306
Foliar analysis	Y. T. Kim	Extension 304
Biomathematics	Dr. F. L. Raymond	Extension 319
Photography	Jean Robinson	Extension 321
Poplar/site growth	G. A. Sinclair	Extension 324
Mechanical		
Silvicultural equipment	A. Citro	Extension 248
FIELD UNITS		
Box 2960, Thunder Bay, Ont. P7B 5G5		
White spruce	N. F. Lyon (Leader)	(807) 767-1607
Black spruce	K. M. McClain	1607
Balsam fir	A. Lehela	1607
Poplar	D. H. Weingartner	1607
Box 490, Sault Ste. Marie, Ont. P6A 5M7		
Spruce, nutrient cycling	Dr. A. G. Gordon	(705) 949-9461
Box 190, Dorset, Ont. P0A 1E0		
Tolerant hardwoods	M. M. McLean	(705) 766-2671
Midhurst, Ont. L0L 1X0		
Nursery stock	Dr. R. E. Mullin	(705) 726-7640

FOREST TREE PRODUCTION BY MINISTRY NURSERIES

Years	No. of Trees	Years	No. of Trees	Years	No. of Trees
1905-12	1,480,539	1954	24,448,860	1967	51,712,461
1912-25	13,096,866	1955	25,519,383	1968	54,805,170
1925-30	46,642,175	1956	28,351,483	1969	52,157,150
1930-35	51,996,837	1957	31,081,112	1970	62,623,496
1935-40	67,900,012	1958	25,854,262	1971	68,182,719
1940-45	57,617,763	1959	33,414,110	1972	76,597,391
1946	13,175,575	1960	41,682,125	1973	68,161,038
1947	12,269,533	1961	49,833,412	1974	65,362,395
1948	13,049,776	1962	43,194,863	1975	45,981,122
1949	17,700,970	1963	43,767,916	1976	50,944,733
1950	19,027,807	1964	43,922,685	1977	45,981,122
1950-52	20,749,268	1965	49,484,068	1978	48,291,842
1953	24,241,754	1966	49,019,854	Total	1,552,136,976

USE OF NURSERY STOCK — in year ending March 31, 1978

Tree Species	Private Land	Crown Lands and Agreement Forests	Education	Total
White Spruce	1,138,161	13,089,161	145,025	14,372,347
Black Spruce	212,500	7,393,893	7,500	7,613,893
Red Pine	1,527,345	5,200,098	161,400	6,888,843
Jack Pine	673,400	10,245,193	21,500	10,940,093
White Pine	505,097	1,827,866	69,700	2,402,663
White Cedar	778,713	378,354	28,700	1,185,767
Scotch Pine	974,575	3,475	6,550	984,600
Silver Maple	290,379	215,620	8,601	514,600
Norway Spruce	271,678	86,526	29,700	387,904
Carolina Popular	365,267	99,719	14,225	479,211
Black walnut	196,700	142,100	21,975	360,775
White ash	246,810	136,604	26,550	409,964
European larch	8,857	170,895	750	180,502
Yellow birch	1,200	158,200	—	159,400
Red oak	91,228	60,380	8,600	160,208
Black locust	122,483	16,200	7,025	145,708
Tamarack	100	9,100	250	9,450
Hemlock	27,844	90,005	200	118,049
Hybrid Poplar	27,875	165,050	—	192,925
Cottonwood	13,850	7,000	1,200	22,050
Japanese larch		233,625	—	233,625
Other species	160,081	361,084	8,100	529,265
Total	7,634,143*	40,090,148**	567,551	48,291,842

*Excluding W.I.A.

**Including 7,158,575 W.I.A.

TREES SUPPLIED FOR PLANTING ON PRIVATE LANDS —

in years ending March 31

County or District	1974	1975	1976	1977	1978
Algoma	118,600	180,905	196,242	161,077	176,540
Brant	216,270	309,792	229,475	55,350	73,275
Bruce	136,883	148,850	149,225	256,350	110,675
Cochrane	15,750	1,400	2,225	245,675	277,750
Dufferin	266,875	342,780	221,422	253,185	232,335
Dundas	4,314	44,451	66,642	56,750	44,900
Durham**	293,985	225,480	179,450	103,150	286,345
Elgin	152,384	104,600	183,272	113,900	88,604
Essex	113,050	117,075	124,025	101,085	111,023
Frontenac	61,800	184,550	87,500	109,525	56,550
Glengary	1,600	145,495	85,750	100,483	75,175
Grey	439,648	398,150	453,772	436,245	381,255
Haldimand	61,020	138,900	356,792	236,315	102,245
Haliburton	44,600	70,450	26,775	38,725	24,450
Halton	247,065	291,125	193,550	132,625	180,910
Hastings	157,025	151,875	142,750	155,450	98,210
Huron	169,689	254,145	214,540	171,067	150,922
Kenora	244,250	275,950	137,550	89,050	415,675
Kent	143,650	172,100	86,900	63,175	87,500
Lambton	121,225	149,200	125,900	95,125	108,275
Lanark	79,450	114,255	134,825	56,425	98,000
Leeds & Grenville	225,740	195,470	165,565	261,545	146,133
Lennox & Addington	118,750	102,100	92,600	59,275	61,550
Manitoulin .....	.....	13,100	3,900	8,200	11,150
Middlesex	432,093	336,408	300,945	205,005	204,306
Muskoka	79,925	85,775	31,100	46,900	36,550
Niagara	280,710	303,175	221,724	251,840	181,339
Nipissing	159,350	43,030	34,645	51,350	25,225
Norfolk	293,455	184,061	181	.....	102,000
Northumberland**	131,677	145,141	189,675	177,620	181,700
Ontario**	316,625	209,875	175,160	167,750	5,057
Ottawa-Carleton	148,880	224,257	173,958	158,442	164,392
Oxford	220,205	269,700	242,012	150,564	103,950
Parry Sound	149,000	137,075	81,350	94,500	78,650
Peel	466,382	354,980	339,621	294,448	136,630
Perth	141,490	116,382	159,350	79,425	122,545
Peterborough	144,903	126,569	102,011	113,507	113,338
Prescott	600	80,675	85,275	58,100	56,750
Prince Edward	33,000	48,800	43,561	56,675	55,200
Rainy River	44,180	36,900	84,075	72,550	200,350
Renfrew	150,825	372,450	248,275	236,275	212,728
Russell	7,257	89,150	79,575	81,550	63,476
Simcoe	980,617	697,295	686,825	517,491	606,435

**Totals do not reflect formation of the Regional Municipality of Durham.

County or District	1974	1975	1976	1977	1978
Stormont	426,550	27,945	26,100	32,410	33,785
Sudbury	265,000	122,050	237,150	156,800	305,700
Thunder Bay	248,570	181,525	118,776	113,700	98,191
Timiskaming	15,900	35,150	35,900	8,000	43,700
Victoria	69,965	89,305	49,121	121,131	103,549
Waterloo	194,425	174,025	115,725	95,625	71,900
Wellington	568,610	511,508	448,072	302,590	264,202
Wentworth	364,284	349,490	218,540	195,050	227,346
York	430,429	401,630	404,075	448,686	435,702
Total	*10,201,430	*9,886,524	*8,593,424	*7,647,726	*7,634,143

*Excluding W.I.A.

FOREST AREAS MANAGED BY THE MINISTER — in Acres at March 31, 1978

Agreement Holders	Date of Agreement	Added 1977-8	Released 1977-8	Total
GOVERNMENT OF CANADA				
National Capital Commission	Aug 16, 1961	.....	.....	3,532.00
23 CONSERVATION AUTHORITIES				
Ausable Bayfield	Dec 13, 1951	.....	.....	4,299.00
Cataraqui Region	Dec 1, 1971	.....	.....	844.00
Catfish Creek	Dec 19, 1962	.....	.....	501.00
Crowe Valley	Aug 21, 1963	.....	.....	200.00
Ganaraska	Jan 31, 1947	.....	.....	8,543.69
Grand River	Mar 18, 1952	.....	.....	5,839.87
Hamilton Region	Oct 19, 1962	.....	.....	12.50
Lakehead Region	May 15, 1958	.....	.....	1,244.20
Long Point Region	Dec 2, 1954	62.85	.....	6,194.65
Lower Thames Valley	Aug 12, 1964	.....	.....	300.00
Maitland Valley	Apr 1, 1955	.....	.....	849.00
Metropolitan Toronto & Region	Apr 11, 1951	46.71	7.03	1,967.68
Moira River	Nov 28, 1951	.....	100.00	17,202.00
Napanee Region	Oct 28, 1954	.....	.....	6,666.00
Niagara Peninsula	Jun 6, 1963	.....	.....	186.00
North Grey Region	Jun 25, 1958	.....	4.27	7,250.73
Otonabee Region	May 15, 1963	400.00	.....	3,403.00
Raisin Region	May 15, 1971	.....	.....	340.00
Sauble Valley	Sep 29, 1959	.....	.....	3,816.00
Saugeen Valley	Dec 15, 1952	.....	.....	14,067.97
South Nation River	Jul 13, 1965	240.00	.....	6,941.58
St. Clair Region	Mar 28, 1960	.....	.....	150.00
Upper Thames River	Apr 11, 1951	.....	.....	3,443.32
Sub-Total		749.56	111.30	94,262.19

Agreement Holder	Date of Agreement	Added 1977-8	Released 1977-8	Total
10 TOWNSHIPS				
Bonfield	Apr 1, 1952	.....	.....	60.00
Charlottenburgh	Apr 1, 1955	.....	.....	175.00
Cramahe	Jan 4, 1964	.....	.....	162.00
Cumberland	May 29, 1952	.....	.....	808.44
Darlington	Aug 19, 1964	.....	.....	140.00
Galway & Cavendish	Nov 1, 1952	.....	.....	619.00
Machar	Dec 30, 1963	.....	.....	90.00
Mosa	Jul 16, 1964	.....	.....	144.00
Torbolton	Mar 28, 1953	.....	.....	430.80
Williamsburg	Oct 19, 1962	.....	.....	400.00
Sub-Total .....	.....	.....	.....	3,029.24
19 COUNTIES				
Brant	Nov 15, 1952	7.24	.....	57.24
Bruce	Jan 20, 1950	50.00	15,383.35	
Dufferin	Nov 26, 1930	.....	.....	2,505.00
Grey	Dec 21, 1937	.....	.....	8,178.08
Huron	Nov 27, 1950	.....	.....	1,589.00
Kent	Dec 23, 1953	.....	.....	75.39
Lanark	Jul 5, 1940	500.00	.....	8,528.00
Leeds & Grenville	Apr 24, 1940	129.00	.....	13,473.00
Lennox & Addington	Apr 3, 1952	.....	14.10	1,166.90
Middlesex	Mar 8, 1954	.....	.....	1,943.00
Northumberland	Jun 10, 1924	.....	.....	5,102.34
Oxford	Sep 1, 1950	.....	.....	848.56
Peterborough	Jun 10, 1924	.....	.....	200.00
Prescott & Russell	Mar 15, 1937	.....	.....	26,041.93
Renfrew	Dec 26, 1951	.....	.....	15,544.01
Simcoe	Jun 19, 1952	.....	.41	27,920.18
Stormont, Dundas & Glengarry	Sep 20, 1949	230.00	.....	6,675.88
Victoria	Aug 10, 1928	25.00	.....	8,642.43
Wellington	Jun 18, 1964	140.00	.....	1,240.00
Sub-Total .....	.....	1,131.24	64.51	145,114.29
6 REGIONAL MUNICIPALITIES				
Durham	Jul 9, 1930	.....	.....	2,647.30
Halton	Mar 14, 1950	.....	.....	1,498.63
Hamilton-Wentworth	Nov 27, 1952	.....	.....	980.95
Ottawa-Carleton	Jul 30, 1964	1,481.00	.....	9,811.00
Waterloo	Apr 17, 1950	.....	.....	718.70
York	Mar 27, 1924	.....	.....	4,888.45
Sub-Total .....	.....	1,481.00	.....	20,545.03
TOTAL, 59 Managed Forest Areas .....	.....	3,361.80	175.81	266,482.75

REGENERATION AND TENDING — Areas in acres in year ending March 31, 1978

Treatment	Crown Lands	Agreement Forest	WIA*	Sub-Total	Other Patent Lands	Total
REGENERATION						
Planting nursery stock	42,509	1,051	9,496	53,056	6,499	59,555
Container stock	5,860	40	46	5,946	—	5,946
Seeding	71,145	—	—	71,145	—	71,145
Scarification	11,637	25	—	11,662	—	11,662
Strip cutting	8,301	—	—	8,301	—	8,301
Seed tree cutting ..	14,304	—	—	14,304	—	14,304
Shelterwood cutting	20,346	460	403	21,209	—	21,209
Clear cutting	5,251	211	—	5,462	—	5,462
Total	179,353	1,787	9,945	191,085	6,499	197,584
TENDING						
Hand cleaning	19,417	1,615	663	21,695	—	21,695
Herbicide spraying	34,089	369	1,514	35,972	6,905	42,877
Thinning improvement cuts	42,683	5,689	10,781	59,153	1,015	60,168
Pruning	2,003	1,442	1,060	4,505	—	4,505
Fertilization Drainage	451	755	147	1,353	—	1,353
Total	98,643	9,870	14,165	122,678	7,920	130,598
TOTAL Area Treated	277,996	11,657	24,110	313,763	14,419	328,182
SITE PREPARATION FOR REGENERATION						
REGENERATION	103,525	957	2,373	106,855	—	106,855
MARKETING FOR REGENERATION AND TENDING	115,082	8,891	14,147	138,120	9,190	147,310

CLASSIFICATION OF CUTOVER — Areas in acres in year ending March 31, 1978

CUTTING METHOD	Available For Regeneration Treatment	Natural Regeneration Without Treatment	Not Available For Regeneration Treatment	Total
Clear Cut	161,682	75,286	64,329	301,297
Selection Cut	—	65,353	—	65,353
Partial Cut	—	—	97,868	97,868
TOTAL	161,682	140,639	162,197	464,518

*Agreements under The Woodlands Improvement Act.

CROWN LANDS TREATED — Areas in acres in years ending March 31

Silvicultural Operations	1974	1975	1976	1977	1978
REGENERATION					
Site prep for					
nat regeneration	9,126	11,314	11,862	8,002	11,637
Modified harvest system	20,984	19,906	23,725	27,426	33,898
Seed tree system	11,173	11,519	3,781	10,147	14,304
Planting	65,241	61,305	56,398	46,642	48,369
Direct Seeding	25,094	59,869	58,095	66,814	71,145
Sub-Total	131,618	163,913	153,861	159,031	179,353
TENDING					
Hand cleaning	13,353	12,446	9,265	11,308	19,417
Herbicide spraying	8,815	21,241	15,136	24,661	34,089
Improvement cuts, thinning**	29,079	28,600	32,964	34,218	42,683
Pruning	3,067	1,341	1,385	928	2,003
Fertilization, drainage	313	485	404	283	451
Sub Total	54,627	64,113	59,154	71,398	98,643
Total	186,245	228,026	213,015	230,429	277,996
Site Preparation***	71,933	76,863	96,642	85,730	103,525
Marking	77,520	87,269	91,061	114,338	115,082
TOTAL, Area Treated	335,698	392,518	400,718	430,497	496,603

**Includes girdling, frilling and poisoning.

***Preparation for seeding, planting or modified harvest cutting.

FOREST RESOURCES GROUP

TIMBER SALES BRANCH

Room W-3503, Main Office.

Telephone (416) 965-2731.

Branch Director	E. Markus	W-3508 .. 5-3948
Resources Inventory	B. Cardwell	W-3415 6914
Field Operations	J. R. McKnight	W-3414 6914
Photo Interpretation	W. Seymour	W-3401 6914
Compilation	D. Trafford	W-3401 6914
Darkroom	W. T. Masters	W-3501 6914
Management Plans	J. D. Hughes	W-3601A 7631
Crown Management Units	G. A. Cameron	W-3603A 7631
Company Management Units	G. Protich	W-3604A 7631
J. E. Osborn	J. E. Osborn	W-3602 7631
Timber Allocation	J. R. Keddie	W-3506 2731
Licence Forester	E. K. E. Dreyer	W-3510B 2731
Licences	D. A. Denton	W-3507 2731
Wood Measurement	J. H. Butts	W-3635 0378
Provincial Wood Measurement	J. H. Bingley	W-3637 0378
Training Officer	R. G. Johnson	W-3636 0378
Industry Development	(Vacant)	W-3509 2731
Forest Mensuration	J. A. Mervart	W-3504 2731
Industry Liaison	R. J. Hall	NE-708 5760
Resource Economics	D. Cope	W-3510 2731
	I. A. Nausedas	W-3510A 2731
	J. Holowacz	(Maple) 832-2761

MANAGEMENT UNITS — Areas in Square Miles at March 31

Year	CROWN LAND FORESTS						AGREEMENT FORESTS	
	Crown		Company		Total		No.	Area
	No.	Area	No.	Area	No.	Area		
1974	88	110,107.0	31	79,347.0	119	189,454.0	60	389.0
1975	88	110,107.0	31	79,347.0	119	189,454.0	60	399.9
1976	88	105,247.0	31	84,207.0	119	189,454.0	60	400.0
1977	88	128,889.0	26	76,969.0	114	205,858.0	60	400.0
1978	88	128,889.0	26	76,969.0	114	205,858.0	60	411.0

TIMBER LICENCES — Areas in Square Miles at March 31

Year	No. of Licences	Under Section 2	Under Section 3	Under Section 5	Total Area Licensed
1974	500	284.9	91,971.5	37.5	92,293.9
1975	480	280.5	96,923.8	51.7	97,256.0
1976	440	228.9	94,994.5	76.9	95,300.3
1977	440	225.6	98,219.5	62.0	98,507.1
1978	428	13.1	93,125.7	27.0	93,165.8

MILL LICENCES

Type of Mill	1973	1974	1975	1976	1977
Saw Mills, 8-hour capacity					
Lumber over					
50M fbm	67	60	53	51	58
Lumber 10M to					
50M fbm	96	104	98	90	99
Lumber under					
10M fbm	531	570	569	547	588
Misc. Sawn Products ..	49	40	45	27	31
Saw Mills, Total	743	774	765	715	776
Veneer Mills	25	26	23	26	24
Pulp Mills	23	24	23	23	22
Total	791	824	811	764	822

TIMBER HARVESTED ON CROWN LANDS BY SPECIES

— in 000s cubic foot and \$000s in years ending March 31

Species	1974	1975	1976	1977	1978
SOFTWOOD					
Balsam	14,868	15,541	9,641	14,780	18,688
Cedar	466	478	520	400	434
Hemlock	2,162	1,204	1,663	1,887	2,050
Jack Pine	157,509	154,346	96,282	135,019	176,958
Red Pine	6,569	7,218	7,159	5,101	6,152
Scots Pine			3		
White Pine	19,213	16,658	15,777	17,397	20,726
Spruce	241,632	249,506	151,828	232,601	265,269
Tamarack	60	165	76	100	68
Mixed	50	149	684	79	250
HARDWOOD					
Ash	63	30	38	45	46
Basswood	393	275	229	215	274
Beach	451	354	348	454	519
W. Birch	2,639	2,764	2,172	2,258	2,341
Y. Birch	3,991	4,024	4,355	4,338	3,924
Butternut	1	1			
Cherry	32	19	26	21	29
Elm	122	80	57	31	22
Maple	7,576	8,268	7,821	9,141	8,523
Oak	363	248	265	228	315
Poplar	31,495	38,032	24,267	27,993	37,419
Mixed	16,029	13,399	3,855	11,429	15,997
TOTALS					
Softwood	442,529	445,267	283,634	407,363	490,598
Hardwood	63,155	67,493	43,433	56,153	69,411
Total	505,684	512,760	327,067	463,516	560,009
Value*	15,480	27,166	19,425	26,788	32,357

*Export Levy not included.

16 TIMBER HARVESTED ON CROWN LANDS
BY METHOD OF MEASUREMENT — in 000s cubic feet and \$000s in years ending March 31

Year	Cords		Cubic Feet		Foot Board Measure			Other	Total	Stumpage Value
	Softwood	Hardwood	Softwood	Hardwood	Grade 1	Grade 2	Grade 3			
1975	105,179	19,987	249,250	14,239	5,166	4,379	3,073	109,313	2,173*	512,760
1976	53,929	11,387	131,268	14,701	4,983	5,614	2,541	102,643	.....	327,067
1977	107,968	14,151	180,081	12,665	5,139	6,458	2,877	134,178	.....	463,516
1978	123,513	20,231	215,215	13,949	4,559	6,312	2,783	173,446	.....	26,788
										\$32,357

*Includes 2,138,449 cubic feet of timber in net merchantable board foot measure during the month of April, 1974. A new basis of measurement and an interim revision to Crown dues was implemented as of May 1, 1974.

**TIMBER HARVESTED ON CROWN LANDS
BY METHOD OF MEASUREMENT AND TREE SPECIES —**

in year ending March 31, 1978

Unit of Measurement Tree Species	Volume	Equivalent Cubic Feet	Crown Dues	Stumpage Value
CORDS, ROUGH				
White Pine	7,531.33	640,163.13	\$ 36,131.22	\$ 43,749.40
Red Pine	2,944.03	250,242.55	14,131.35	15,889.93
Jack Pine	502,346.83	42,699,508.97	2,392,216.34	2,470,931.64
Spruce, Mixed	639,562.87	54,363,043.85	3,048,705.65	3,175,147.32
Hemlock	2.07	175.82	9.94	10.36
Balsam	28,097.23	2,388,264.55	134,774.92	142,155.57
Cedar	2,144.28	182,263.80	10,292.53	11,024.20
Tamarack	244.85	20,812.85	1,175.28	1,201.69
White Birch	8,063.38	685,387.80	8,063.38	13,269.94
Poplar	163,706.03	13,915,352.53	163,706.03	203,721.55
Hardwoods, Mixed	5,796.81	468,096.05	5,771.88	20,043.78
Sub-Total	1,360,439.71	115,613,311.90	\$5,814,978.52	\$6,097,145.38
CORDS, PEELED				
Jack Pine	40,284.50	4,028,450.00	\$ 229,621.65	\$ 234,779.42
Spruce, Mixed	168,650.78	16,865,078.00	961,309.53	1,001,821.05
Balsam	18,234.69	1,823,469.00	83,888.52	89,672.87
Cedar	14.76	1,476.00	84.13	88.56
White Birch	11.16	1,116.00	13.39	18.97
Poplar	5,572.91	557,291.00	6,687.49	8,366.85
Sub-Total	232,768.80	23,276,880.00	\$1,281,604.71	\$1,334,747.72
CUBIC FEET				
White Pine	14,650,469.86	\$ 14,662,097.98	\$ 823,664.73	\$ 1,417,343.36
Red Pine	4,094,056.49	4,140,705.05	227,088.49	385,603.34
Jack Pine	62,173,741.06	62,222,399.69	3,531,708.79	3,668,893.77
White Spruce	3,025,119.29	3,025,119.29	172,431.77	177,916.48
Black Spruce	25,173,585.26	25,173,585.26	1,434,894.84	1,469,750.37

	Volume	Equivalent Cubic Feet	Crown Dues	Stumpage Value
Spruce, Mixed	93,642,025.71	93,681,817.38	5,330,164.34	5,715,382.11
Hemlock	1,902,094.52	1,928,665.50	108,419.28	113,954.69
Balsam	10,082,683.19	10,082,736.95	568,620.63	599,518.40
Cedar	243,357.18	250,508.10	13,845.05	22,512.61
Tamarack	47,521.62	47,521.62	2,708.75	2,818.20
White Birch	1,654,799.53	1,654,799.53	19,861.64	50,030.35
Poplar	12,290,086.13	12,294,425.57	147,626.68	206,042.91
Sub-Total	228,979,539.84	229,164,381.92	\$12,381,034.99	\$13,849,766.59
<hr/>				
BOARD FOOT MEASURE, GRADE 1				
Maple	17,952.00	2,825,719.39	\$359,040.00	428,521.55
Yellow Birch	9,038.51	1,379,822.10	182,117.70	277,169.52
Oak	578.95	95,777.87	11,579.00	16,829.40
Beech	916.74	148,809.54	18,334.80	24,666.26
Ash	89.46	14,379.49	1,780.40	2,535.68
Elm	64.78	9,800.01	1,295.60	1,662.90
Basswood	446.47	73,908.49	8,929.40	13,763.72
Butternut	1.11	178.85	22.20	24.42
Cherry	66.46	10,348.03	1,329.20	1,497.55
Sub-Total	29,204.48	4,558,743.77	\$584,428.30	\$766,671.00
<hr/>				
BOARD FOOT MEASURE, GRADE 2				
Maple	24,615.77	3,969,393.33	\$246,157.70	\$327,892.95
Yellow Birch	11,519.89	1,812,593.07	115,434.47	224,079.91
Oak	677.81	114,273.03	6,778.10	12,643.58
Beech	1,571.30	258,495.17	15,713.00	23,010.47
Ash	124.39	20,914.75	1,243.90	2,228.96
Elm	67.95	10,401.64	679.50	984.92
Basswood	637.79	109,490.68	6,377.90	12,786.20
Butternut .....	.39	69.19	3.90	5.08
Cherry	103.58	16,704.41	1,035.80	1,266.32
Sub-Total	39,318.87	6,312,335.27	\$393,424.27	\$604,898.39

Unit of Measurement Tree Species	Volume	Equivalent Cubic Feet	Crown Dues	Slumpage Value
BOARD FOOT MEASURE, GRADE 3				
Maple	9,757.02	1,728,319.47	\$19,514.04	\$30,473.42
Yellow Birch	4,165.82	732,052.28	8,495.52	10,672.14
Oak	566.54	104,886.20	1,133.08	4,279.00
Beech	622.04	111,759.92	1,244.08	4,545.98
Ash	61.39	11,148.14	122.78	592.79
Elm	10.39	1,692.16	20.78	22.93
Butternut .....	.80	150.63	1.60	1.60
Cherry	14.03	2,437.47	28.06	28.94
Sub-Total	15,693.76	2,783,017.30	\$31,551.40	\$55,819.38
WEIGHTED WOOD				
White Pine	3,471,487.47	5,424,154.25	\$ 306,719.02	\$ 412,897.65
Red Pine	1,127,895.70	1,761,511.15	99,202.36	139,273.56
Jack Pine	37,744,359.82	68,007,867.33	3,851,414.50	4,014,937.86
Spruce, Mixed	40,049,184.25	72,160,704.57	4,082,875.66	4,360,053.92
Hemlock	86,185.68	121,388.36	6,912.03	8,086.04
Balsam	2,680,039.00	4,393,588.41	249,743.53	262,284.25
Poplar	7,349,617.52	10,652,054.53	127,854.55	154,588.94
Hardwoods, Mixed	8,190,398.22	10,924,922.80	130,945.46	177,752.11
Sub-Total	100,699,217.66	173,446,191.40	\$8,855,667.11	\$9,529,874.33
FUELWOOD, CORDS				
Softwoods, Mixed	2,943.62	250,207.70	\$ 2,943.62	\$ 3,007.41
Hardwoods, Mixed	54,307.79	4,603,893.15	54,307.79	115,072.13
Sub-Total	57,251.41	4,854,100.85	\$ 57,251.41	\$ 118,079.54
TOTAL CROWN TIMBER HARVESTED				
			\$29,399,940.71	\$32,357,002.33

PRINCIPAL STATISTICS OF ONTARIO'S FOREST INDUSTRY BY SECTOR

Source: Statistics Canada

Sector	Year	Establishments No.	Employees No.	Salaries and Wages \$000s	Fuel and Electricity \$000s	Materials and Supplies \$000s	Value of Shipments \$000s	Value Added \$000s
1971								
Logging		408	8,125	74,761	4,936	94,459	206,608	106,650
Wood Industries		733	16,835	105,050	6,771	178,897	360,389	172,794
Paper and Allied		289	43,867	359,155	64,119	697,061	1,367,409	627,387
Total		1,430	68,827	538,966	75,826	970,417	1,934,406	906,831
Furniture and Fixtures		872	20,066	126,415	3,512	182,014	381,739	203,498
1972								
Logging		393	7,783	81,892	6,262	104,970	234,063	117,993
Wood Industries		733	18,598	124,486	7,881	222,283	449,702	223,446
Paper and Allied		300	44,580	395,818	69,169	753,533	1,484,008	681,961
Total		1,426	70,961	602,196	83,312	1,080,786	2,167,773	1,023,400
Furniture and Fixtures		860	22,210	151,240	4,022	227,909	475,424	254,411
1973								
Logging		400	8,983	98,699	8,131	113,766	254,794	145,762
Wood Industries		727	20,598	153,863	10,667	271,244	580,816	309,800
Paper and Allied		289	45,391	436,484	75,145	861,170	1,748,335	822,197
Total		1,416	74,972	689,046	93,943	1,346,180	2,583,945	1,277,759
Furniture and Fixtures		842	22,920	170,161	4,098	272,557	558,405	301,987
1974								
Logging		380	9,673	121,454	11,329	150,366	326,247	188,240
Wood Industries		740	20,507	173,683	13,095	314,463	636,670	337,486
Paper and Allied		294	47,404	512,825	93,673	1,175,921	2,429,138	1,221,616
Total		1,414	77,584	807,964	118,097	1,640,750	3,392,055	1,747,342
Furniture and Fixtures		894	24,693	204,795	5,152	336,463	668,463	351,949
1975								
Logging		328	8,028	111,940	9,724	150,098	302,702	176,263
Wood Industries		726	19,284	185,822	12,975	340,021	638,441	306,896
Paper and Allied		294	45,178	497,083	93,261	1,064,969	2,126,441	999,360
Total		1,356	72,490	794,845	115,960	1,555,088	3,067,584	1,482,519
Furniture and Fixtures		785	23,890	217,245	5,681	320,035	676,181	360,068

MINERAL RESOURCES GROUP*

Room W-6317, Main Office.

Telephone (416) 965-4271.

Executive Co-ordinator	G. A. Jewett	W-6317 4271
Head, Planning and Administration	L. M. Keith	R-811 5484
Administrative Officer	Ms. L. J. Burchat	R-809 2461
Financial Officer	H. E. Cook	R-810 2461

ONTARIO GEOLOGICAL SURVEY

Room 1121, 77 Grenville St., Toronto, Ont. M5S 1B3.

Telephone (416) 965-1283.

Survey Director	Dr. E. G. Pye	R-1121 1283
Precambrian Geology Section	Dr. V. G. Milne, Spvr.	R-914 1321
North Archaen Group	P. C. Thurston	R-923 1827
Central Archaen Group	W. O. Mackasey	R-906 4817
South Archaen Group	Dr. D. R. Pyke	R-916 1827
Proterozoic Group	(to be appointed)	
Engineering & Terrain Geology Section	Dr. O. L. White	R-707 1182
Paleozoic Group	Dr. P. G. Telford	R-706 1183
Quaternary Group	Dr. W. R. Cowan	R-705 1183
Geophysics—Geochemistry Section	R. B. Barlow, Spvr.	R-708 1697
Mineral Deposits Section	J. A. Robertson, Spvr.	R-911 1466
Geoservices Section	Dr. M. F. Walmsley, Spvr.	R-912 5601
Geoscience Data Centre	H. A. Groen	R-804 4641
Assessment Files Research	R. C. Owen	R-801 6139
Geoscience Information	E. B. Freeman	R-807 4641
Scientific Review	Mrs. G. M. Scott	R-724 4536
Geoscience Laboratories	Dr. A. E. Pitts	R-1117 1337

*See Mining Lands and Prospecting Activities under Lands Administration Branch

MINERAL EXPLORATION ASSISTANCE PROGRAM (MEAP)

Summary of Approved Expenditures* in years ending March 31. Totals from April 1, 1971.

AREA	1975	1976	1977	1978	Area Total
COBALT-GOWGANDA	\$ 186,029	\$ 135,736	\$ 164,274	\$ 287,723	\$ 1,913,163
Company Expenditures	62,010	43,986	49,667	95,785	592,057
GERALDTON-BEARDMORE	247,267	164,882	159,555	2,808	1,412,840
Company Expenditures	82,422	47,763	50,237	936	430,620
KIRKLAND LAKE	330,160	79,989	173,634	258,535	1,622,322
Company Expenditures	110,053	20,640	57,676	85,860	499,883
RED LAKE	126,745	232,090	143,707	236,149	1,679,921
Company Expenditures	42,248	76,350	43,425	73,585	514,192
ATIKOKAN	33,691	96,363	294,545	211,171	635,770
Company Expenditures	11,230	32,121	97,134	69,355	209,841
EASTERN ONTARIO	239,438	344,645	403,753	987,836	
Company Expenditures	75,540	105,381	120,341	301,262	
TOTAL	923,892	948,498	1,280,360	1,400,139	8,251,852
Company Expenditures	307,963	296,400	403,531	445,863	2,547,855

*Under MEAP, the Government reimburses a company or individual one-third of the cost of an approved exploration expenditure up to a maximum of \$33,333.33. Approved company expenditures do not necessarily reflect the total company costs on MEAP projects.

ASSESSMENT FILES RESEARCH

Office Operations	1973	1974	1975	1976	1977	1946-77
FILES ADDED						
Technical Surveys and Summaries for Assessment Credit	277	300	277	240	240	5,914
MEAP	59	50	31	56	45	337
Ontario Securities Commission and Misc.	85	60	56	81	48	478
Drilling Reports	556	335	500	400	300	8,061
OPERATIONS						
Enquiries	3,151	4,416	2,821	2,685	3,460	.....
Files Examined	10,886	9,216	15,277	14,702	14,520	.....
Control Maps Examined	6,856	5,962	7,389	8,932	7,141	.....

LIST OF FIELD PARTIES

Ontario Geological Survey, 1977

No.	Location	Leaders
PRECAMBRIAN GEOLOGY SECTION		
1.	Slate Falls Area	H. Wallace
2.	Birch Lake Area	P. C. Thurston
3.	Bateman-Balmer Townships Area	J. Pirie
4.	English River Subprovince (Marchington Lake Area)	F. W. Breaks W. D. Bond
5.	Savant Lake-Crow Lake Special Project	N. F. Trowell C. E. Blackburn
6.	Mine Centre Area	J. Wood
7.	Sandybeach Lake Area	P. A. Palonen
8.	Stratigraphy and Structure of the Sturgeon River Area	W. O. Mackasey
9.	Little Marshall Lake Area	S. E. Amuken
10.	Greenwich Lake Area	M. W. Carter
11.	Carbonatite-Alkalic Complexes	R. P. Sage
12.	Heron Bay Area	T. L. Muir
13.	Cowie Lake Area	E. C. Grunsky
14.	Cunningham and Garnet Townships	G. M. Siragusa
15.	Regional Stratigraphy and Structure of the Timmins-Kirkland Lake Area	D. R. Pyke L. S. Jensen
16.	Sinclair Lake Area	D. R. Pyke L. S. Jensen
17.	Kirkland Lake-Larder Lake Areas	G. Bennett
18.	Huronian Volcanism	G. Bennett
19.	Garden River Indian Reserve Area	B. O. Dressler
20.	Aylmer and Rathburn Townships	
21.	Regional Structure and Stratigraphy of the Eels Lake Area	E. G. Bright J. M. Wolff
22.	Kaladar Area	S. G. Themistocleous
23.	Clontarf Area	S. B. Lumbers
24.	Pembroke and Renfrew Areas	
ENGINEERING AND TERRAIN GEOLOGY SECTION		
25.	Paleozoic Geology of the Windsor-Essex and Pelee Island Areas	P. G. Telford
26.	Lignite Deposit Survey in the Onakawana Area	H. M. Verma P. G. Telford
27.	Quaternary Geology of the Strathroy, Bothwell and Ridgetown Areas	A. J. Cooper
28.	Quaternary Geology of the Walkerton Area	W. R. Cowan
29.	Quaternary Geology of the Sarnia and Perch Areas	W. D. Fitzgerald
30.	Quaternary Geology of the Chesley-Tiverton and Wiarton Areas	D. R. Sharpe
31.	Quaternary Geology of the Bruce Peninsula	D. R. Sharpe
32.	Quaternary Geology of the Renfrew, Cobden, and Fort Coulonge Areas	P. J. Barnett
33.	Quaternary Geology of the Coniston and Coppercliff Areas	E V. Sado J. D. Morton
34.	Quaternary Geology of the New Liskeard Area	
35.	Physiography and Surficial Geology of Northwestern Ontario	W. R. Cowan G. J. Burwasser
36.	Township Aggregate Inventory, Southern Ontario	E. V. Sado
37.	Sand and Gravel Resources in the Sudbury Area	

38.	Engineering Geology Evaluation of Terrain in Northern Ontario	J. F. Gartner
39.	Stress Relief and Rock Movement, Hamilton Mountain Trunk Sewer	J. C. Roegiers J. C. Thompson

GEOPHYSICS/GEOCHEMISTRY SECTION

40.	Gravity and Magnetic Susceptibility Surveys	V. K. Gupta
41.	Investigations of Uranium Occurrences in the Sharbot Lake Area	D. R. Wadge R. B. Barlow C. Ware
42.	Joint Federal-Provincial Lake Sediment Geochemistry Follow-Up Program	L. G. Closs

MINERAL DEPOSITS SECTION

43.	Uranium Deposits of Ontario	J. A. Robertson
44.	Peat and Peat Moss Deposits in the Thunder Bay-Ignace Area	R. B. Graham H. D. Meyn
45.	Iron Deposits of Ontario	
46.	Mineral Resource Studies in the Pembroke-Renfrew Area	J. B. Gordon A. C. Colvine M. A. Vos H. D. Meyn
47.	Potentially Nickeliferous Ultramafic Rocks in Newton Township	D. G. Innes
48.	Geology and Mineralization of the Lateral Lake Stock	A. C. Colvine P. McCarter

GEOSERVICES EDUCATIONAL CLASSES — (Classes began in calendar years shown within brackets.)

Numbers of Classes and Registrations in years ending March 31

Year	BASIC COURSE (1894)		SPECIAL TOPICS COURSE (1967)		FIELD COURSE (1968)	
	Cl	Reg	Cl	Reg	Cl	Reg
1974	14	1,150	1	96	2	35
1975	8	968	1	84	2	39
1976	2	489	1	66	2	31
1977	3	394	1	96	2	32
1978	1	283	1	99	2	29

MINERAL RESOURCES GROUP

MINERAL RESOURCES BRANCH

4th Floor, Section Six, Main Office.

Telephone (416) 965-1559.

Branch Director
Mining Tax Assessment Section

Information & Mineral Statistics Section
Metallic Minerals Section
Industrial Minerals Section
Petroleum Resources Section

Dr. T. P. Mohide	1559
F. E. Hall, Spvr. and Mine Assessor	1062
D. A. Moddle, Spvr.	1016
Dr. G. Anders, Spvr.	1311
S. E. Yundt, Spvr.	1172
D. Hurd, Spvr.	1981

ONTARIO MINERAL PRODUCTION IN 1976 and 1977

1976 figures show final completion of shipments

1977 figures are Statistics Canada preliminary.

..... Figures Not Available

— Nil or Zero

METALLIC MINERALS	Unit	Quantity	1976	Quantity 000s	1977
			Value \$		Value \$000s
Antimony	lb	—	—	—	—
	kg	—	—	—	—
Bismuth	lb	96	—	—	—
	kg	44	710	—	—
Cadmium	lb	1,617,883	—	1,372	—
	kg	733,859	4,246,943	622	4,375
Calcium	lb	1,133,096	—	1,248	—
	kg	513,964	1,432,505	566	2,022
Cobalt	lb	2,532,997	—	2,799	—
	kg	1,148,948	10,942,034	1,270	14,856
Columbium (Cb ₂ O ₅)	lb	—	—	—	—
	kg	—	—	—	—
Copper	lb	573,637,656	—	616,339	—
	kg	260,197,664	391,377,336	279,567	428,170
Gold	oz	739,547	—	739	—
	g	23,002,483	91,043,412	22,985	115,481
Indium	oz	—	—	—	—
	g	—	—	—	—
Iron ore	st	11,112,149	—	11,468	—
	t	10,080,772	252,317,984	10,404	299,838
Iron, remelt	st	—	—	—	—
	t	—	—	—	—
Lead	lb	15,224,610	—	18,204	—
	kg	6,905,767	3,448,831	8,257	5,671
Magnesium	lb	13,430,131	—	16,712	—
	kg	6,091,805	12,825,301	7,580	17,644
Mercury	lb	—	—	—	—
	kg	—	—	—	—
Molybdenum	lb	—	—	—	—
	kg	—	—	—	—
Nickel	lb	413,225,389	—	407,892	—
	kg	187,435,884	882,305,042	185,017	931,975
Platinum group	oz	416,821	—	469	—
	g	12,964,582	50,143,112	14,588	61,772
Selenium	lb	108,400	—	123	—
	kg	49,169	1,924,100	56	2,223
Silver	oz	16,317,178	—	16,500	—
	kg	507,521	70,131,231	513	81,113

Tantalum (Ta ₂ O ₅) ..	Ib	—	—	—	—
	kg	—	—	—	—
Tellurium	Ib	15,500		18	
	kg	7,031	157,945	8	205
Thorium	Ib	—		—	
	kg	—	—	—	—
Tin	Ib	379,574		340	
	kg	172,172	1,168,823	154	1,978
Tungsten (WO ₃)	Ib	—		—	
	kg	—	—	—	—
Uranium (U ₃ O ₈)	Ib	9,789,981		9,523	
	kg	4,440,661	....	4,320	....
Yttrium (Y ₂ O ₃)	Ib	....		....	....
	kg	....	....	....	....
Zinc	Ib	699,292,826		643,580	
	kg	317,193,890	263,101,933	291,923	225,452
Total Value, Metallics		\$2,036,567,242			\$2,192,775

NON-METALLICS	Quantity	1976	Value \$	Quantity	1977	Value \$000s
Nepheline syenite .. st	595,381			639		
t	540,121	10,566,411		580	12,160	
Nitrogen	Mcf	—		—	—	—
000's m ³	—	—	—	—	—	—
Peat	st	9,611		10		
t	8,719	785,183		9	790	
Potash (K ₂ O)	st	—		—	—	—
t	—	—	—	—	—	—
Pyrite, pyrrhotite	st	—		—	—	—
t	—	—	—	—	—	—
Quartz	st	1,242,204		1,105		
t	1,126,909	5,203,268		1,002	5,940	
Salt	st	4,948,394		4,995		
t	4,489,108	52,492,835		4,531	55,823	
Soapstone, talc, pyrophyllite	st	...		...	...
t	...	586,902		...	575	
Sodium sulphate	st	—		—	—	—
t	—	—	—	—	—	—
Sulphur in smelter gas	st	400,366		416		
t	363,206	9,568,747		377	9,941	

Sulphur, elemental ..	st	1,249		1	
	t	1,133	28,394	1	21
Arsenious oxide	lb	—		—	
	kg	—	—	—	—
Asbestos	st	29,638		14	
	t	26,887	2,595,282	13	1,180
Barite	st	...		...
	t	...	127,500	...	400
Diatomite	st	—		—	
	t	—	—	—	—
Feldspar	st	—		—	
	t	—	—	—	—
Fluorspar	st	—		—	
	t	—	—	—	—
Gemstones	lb	...		...
	kg	...	105,857	...	200
Grindstone	st	—		—	
	t	—	—	—	—
Gypsum	st	632,758		755	
	t	574,028	2,680,192	685	3,677
Helium	Mcf ooo's m ³	—		—	
	—	—	—	—	—
Iron Oxide	st	—		—	
	t	—	—	—	—
Lithia	lb	—		—	
	kg	—	—	—	—
Magnestic, dolomite and brucite	st	—		—	
	t	—	—	—	—
Titanium dioxide, etc.	st	—		—	
	t	—	—	—	—
Total Value Non-Metallics		\$ 84,740,571		\$	90,707

STRUCTURAL MATERIALS	Unit	Quantity	1976	Value \$	Quantity 000s	1977	Value \$000s
Clay Products			52,117,111				56,511
Cement	st	4,100,583			4,041		
	t	3,719,986	126,123,662		3,666		129,306
Lime	st	1,285,684			1,371		
	t	1,166,353	35,255,063		1,244		38,401
Sand and Gravel	st	75,841,272			77,500		
		68,802,045	106,093,326		70,307		112,400
Stone	st	31,047,044			32,500		
	t	28,165,405	71,860,589		29,484		79,300
Total Value, Structural Materials			\$391,449,751				\$415,918

FUELS	Quantity	1976	Value \$	Quantity	1977	Value \$000s
Coal	st	—		—	—	—
	t	—		—	—	—
Natural Gas	Mcf ooo's m ³	4,959,000 140,423	4,860,000	6,200 176		6,572
Natural Gas by-products	bbl m ³	—	—	—	—	—
Petroleum, crude ..	bbl m ³	621,000 98,731	5,216,000	630 100		6,867
Total value, Fuels			\$ 10,076,000			\$ 13,439

ONTARIO MINERAL PRODUCTION		TOTAL VALUE	\$ 2,522,833,564	\$ 2,712,839

EMPLOYMENT IN ONTARIO MINING INDUSTRY

Year	Mines	Quarries	Clay Gravel Sand	Contractors and Diamond Drilling	Sub Total	Metal- lurgical	Total
1973	25,734	1,596	3,602	481	31,413	12,673	44,086
1974	26,785	1,650	3,375	394	32,204	12,456	44,660
1975	29,102	1,722	3,855	422	35,101	12,095	47,196
1976	29,335	1,898	3,996	338	35,567	12,302	47,869
1977	29,438	*1,950	*4,000	304	35,692	12,119	47,811

*Estimated.

VALUE OF ONTARIO MINERAL OUTPUT BY REGIONS

Regions	1973	1974	1975	1976
NORTHWESTERN REGION				
Metallic Minerals				
Non-Metallic Minerals, Structural Materials	\$ 139,866,135	\$ 182,463,743	\$ 189,990,807	\$ 198,455,672
Total	1,404,490	2,098,723	569,976	4,144,996
Total	141,270,625	184,562,466	190,560,783	202,600,668
NORTH CENTRAL REGION				
Metallic Minerals				
Non-Metallic Minerals, Structural Materials	133,587,655	196,929,996	170,056,608	181,123,813
Total	3,862,807	3,400,330	3,392,766	4,244,346
Total	137,450,462	200,330,326	173,449,374	185,368,159
NORTHERN REGION				
Metallic Minerals				
Non-Metallic Minerals	310,399,917	449,309,675	402,653,654	387,825,132
Structural Materials	4,746,167	2,177,083	2,172,651	4,274,775
Total	1,610,735	1,648,108	2,247,902	1,374,396
Total	316,756,819	453,134,866	407,074,207	393,474,303
NORTHEASTERN REGION				
Metallic Minerals				
Non-Metallic Minerals	*921,122,970	*1,198,347,624	1,164,190,761	1,241,783,805
Structural Materials	7,457,450	7,982,180	8,126,729	12,669,660
Total	6,208,940	7,405,704	8,820,938	11,412,327
Total	934,789,360	1,213,735,508	1,181,138,428	1,265,865,792
ALGONQUIN REGION				
Metallic Minerals				
Non-Metallic Minerals	5,972,401	10,175,659	9,792,922	14,257,806
Structural Materials	7,860,300	9,179,453	8,917,797	10,624,859
Total	2,229,937	3,908,658	4,744,881	5,028,241
Total	16,062,638	23,263,770	23,455,600	29,910,906
EASTERN REGION				
Metallic Minerals				
Non-Metallic Minerals	10,882,094	12,480,175	12,281,437	13,121,014
Structural Materials	594,145	816,427	785,159	692,480
Total	45,710,587	52,122,629	57,913,912	68,257,945
Total	57,186,826	65,419,231	70,980,508	82,071,439

The discrepancy between the total value of production of Ontario and the total value of regional production in Ontario exists because of the inclusion of non-Ontario sand and gravel operations in the published statistics.

*Does not include value for uranium.

CENTRAL REGION

Natural Gas,				
Petroleum	868,822	413,434	366,330	305,959
Non-Metallic				
Minerals	2,898,093	3,156,258	3,571,357	3,275,297
Structural Materials	145,083,894	168,459,058	182,802,821	203,441,222
Total	148,850,809	172,028,750	186,740,503	207,022,478

SOUTHWESTERN REGION

Natural Gas,				
Petroleum	5,674,878	7,176,566	11,187,670	9,770,041
Non-Metallic				
Minerals	33,166,178	40,267,824	32,265,317	52,496,998
Structural Materials	63,486,115	74,659,259	80,436,971	94,252,780
Total	102,327,171	122,103,649	123,889,958	156,519,819

ONTARIO TOTAL

ONTARIO TOTAL	1,854,694,710	2,434,578,566	2,357,289,366	2,522,833,564
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ONTARIO CRUDE OIL

Production in barrels

Year	Annual	Cumulative from 1863
1973	808,649	51,997,546
1974	734,068	52,731,614
1975	704,323	53,435,937
1976	621,508	54,057,445
1977*	615,813	54,673,258

Proven resources of oil are 10.5 million barrels.

Potential resources of oil are 300 million barrels.

Anticipated annual production rate in 1973-82 decade is 900,000 barrels.

Barrel = 35.0 Imperial gallons.

*Preliminary.

ONTARIO NATURAL GAS

Production in 000s cubic feet

Year	Annual	Cumulative from 1890
1973	9,528,102	771,504,853
1974	7,536,953	779,041,806
1975	10,935,471	789,977,277
1976	4,957,616	794,934,893
1977*	8,429,681	803,364,574

Proven resources of natural gas are 230 billion cubic feet. (Bcf).

Potential resources of natural gas are 5,000 billion cubic feet.

Anticipated annual production in 1973-82 decade is 10 Bcf.

About 70% of Ontario's natural gas output comes from Lake Erie.

*Preliminary.

OUTDOOR RECREATION GROUP

Room W-2319, Main Office.

Telephone (416) 965-5661.

Executive Co-ordinator
 Secretary
 Administration
 Program Analyst
 Enforcement Specialist

CORTS Secretariat Co-ordinator
 340 George St. North Chief Tech
 Peterborough K9H 7E8 Officer
 Secretary

Chairman, Provincial Parks Council
 Environmental Studies Building
 University of Waterloo, Waterloo

L. H. Eckel W-2319 5661
 Miss N. Nishi W-2319 5661
 P. S. King W-2318 5661
 J. G. Ker W-2318 5661
 R. Aldrich W-3324 3377

P. Wyatt (705) 743-9311
 P. White 9311
 Mrs. H. Gifford 9311
 Dr. G. Priddle (519) 885-1211

WILDLIFE BRANCH

Room W-2321, Main Office.

Telephone (416) 965-4251.

Branch Director
 Senior Policy Adviser

Wildlife Management Section
 Moose and Caribou Biologist
 Deer and Black Bear Biologist
 Waterfowl Biologist
 Upland Game Biologist

Wildlife Policy Development Section
 Biometrician
 Environmental Projects Planner
 Statistician

Extension and Interpretation Section
 Habitat Ecologist
 Intrap & Endangered Species
 Biologist

Wildlife Services Section
 Fur Management Spvr
 Fur Management Biologist
 Resource Development Spvr
 Resource Development Co-ordinator
 Hunter Safety Co-ordinator

Box 50, Maple, Ontario L0J 1E0.

Wildlife Research Section
 Big Game, Moose
 Big Game, Deer
 Big Game, Behavior
 Rabies
 Predators
 Upland Game and Waterfowl
 Diseases and Parasites

J. D. Roseborough W-2321 ... 4254
 R. O. Standfield W-2321 ... 3345

L. J. Post, Spvr W-2321 ... 4251
 R. A. Stefanski W-2321 ... 4251
 M. C. Smith W-2321 ... 4251
 R. M. Alison W-2321 ... 4251
 J. L. Harcus W-2321 ... 4251

D. A. Hagan, Spvr W-2334 ... 4251
 J. M. Barbowski W-2335 ... 7054
 L. Whistance-Smith W-2334 ... 4251
 G. A. Nielsen W-2302 ... 7054

(vacant) W-2338 ... 4251
 D. L. Euler W-2338 ... 4251

G. B. McKeating W-3228 ... 4251

J. A. Shannon, Spvr W-2321 ... 4251
 M. Novak W-2321 ... 3345
 (vacant) W-2321 ... 3345
 W. C. Currie W-2321 ... 3345
 F. F. Legace W-2321 ... 3345
 W. M. McKittrick W-2321 ... 4251

Telephone (416) 832-2761.

C. D. McInnes, Spvr	Extension	241
D. G. Fraser	Extension	241
R. L. Hepburn	Extension	241
A. B. Bubenik	Extension	241
D. H. Johnston	Extension	241
G. B. Kolenosky	Extension	241
H. G. Lumsden	Extension	241
E. Addison	Extension	241

HUNTING STATISTICS — Estimates compiled from hunters surveyed by mail

Comparison between hunter numbers and licence sales (see Page 38) gives an estimate of the number of licence holders who did not hunt.

MOOSE		RESIDENT				NON-RESIDENT				TOTALS	
Year	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest		
1972	60,620	517,000	10,320	12,490	91,500	3,470	73,110	608,500	13,790		
1973	74,240	637,800	9,770	16,990	130,100	3,800	91,230	767,900	13,570		
1974	75,370	630,300	10,510	16,850	121,900	3,400	92,220	752,100	13,910		
1975	74,320	595,300	9,800	7,800	59,200	1,510	82,210	654,500	11,310		
1976	75,670	543,200	9,420	7,770	55,400	1,450	83,440	598,600	10,870		

DEER		RESIDENT				NON-RESIDENT				TOTALS	
Year	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest		
1972	81,800	489,000	16,070	4,800	26,500	*1,630	86,600	515,500	*17,700		
1973	82,390	462,300	15,140	4,930	27,900	*1,530	87,320	490,200	*16,670		
1974	80,380	487,100	12,530	3,990	23,600	*1,050	84,370	487,100	*13,580		
1975	82,030	442,900	11,740	3,010	16,400	*830	85,040	459,300	*12,140		
1976	78,250	433,900	14,180	3,240	16,700	*930	81,490	450,600	*15,110		

BEAR***		RESIDENT				NON-RESIDENT				TOTALS	
Year	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest		
1971	1,030	6,800	.....	9,010	48,400	.....	10,040	55,200	.....	
1972	1,120	7,400	6,330	9,300	49,500	2,620	10,420	56,900	8,950		
1973	1,220	12,900	3,680	9,140	62,200	2,120	10,360	75,100	5,800		
1974	1,140	6,200	1,950	9,500	52,100	1,680	10,640	58,300	3,630		
1975	1,220	6,900	1,870	9,030	56,800	1,760	10,250	63,700	3,630		

SMALL GAME**		RESIDENT				NON-RESIDENT				SUMMER HUNTING	
Year	Hunters	Hunter Days	Hunters	Hunter Days	Year	Hunters	Hunter Days			RESIDENT	
1970	263,700	4,464,000	.....	.....	1972	18,720	369,500				
1971	267,870	3,842,500	8,450	80,000	1974	16,380	291,800				
1972	236,460	3,647,000	.....	.....	1975	16,170	246,800				
1973	247,240	3,356,000	7,960	57,700							
1974	225,840	3,299,000	7,380	52,100							

*Includes deer harvested on moose licences.

**Includes waterfowl.

***Estimates of number of hunters and hunter-days are based on bear licences only
Harvest includes bear harvested on moose-bear, deer-bear and moose licences.

EXPENDITURE BY HUNTERS — (Excluding Licence Fees)

Survey Year*	Hunt	Estimates Compiled from Hunters Surveyed by Mail		
		Resident	Non-Resident	Total
1972-73	Bear	\$ 199,000	\$ 2,077,000	\$ 2,276,000
1973-74	Bear	255,000	2,336,000	2,591,000
1973-74	Small Game	44,323,000	2,458,000	46,781,000
1974	Small Game	3,557,000	.....	3,557,000
1973-74	Deer	9,432,000	1,243,000	10,675,000
1973-74 ...	Moose	13,791,000	6,070,000	19,861,000
1976-77	Moose	17,821,000	3,192,000	21,013,000
1976-77	Deer	12,000,000	809,000	12,809,000

HUNTING LICENCES SOLD

Year	DEER		MOOSE		BEAR	
	Resident	Non-Res	Resident	Non-Res	Resident	Non-Res
1973	88,448	5,590	80,320	17,071	1,343	9,405
1974	89,149	4,907	83,921	15,614	1,443	8,484
1975	91,490	4,617	82,750	7,934	1,585	9,115
1976	86,641	5,017	83,618	7,897	1,869	9,325
1977	95,114	4,501	74,834	6,392	1,872	8,977

Year	SMALL GAME		TOTAL		Total
	Resident	Non-Res	Resident	Non-Resident	
1973	376,406	8,341	546,517	40,407	586,924
1974	369,624	7,939	544,137	36,944	581,081
1975	388,065	8,752	563,890	30,418	594,308
1976	384,021	9,046	556,149	31,285	587,434
1977	389,014	9,225	569,834	29,095	589,929

LAW ENFORCEMENT

Seizures and Convictions
in years ending March 31

Year	Seizures	Convct
1973	5,037	5,103
1974	5,056	4,510
1975	4,976	5,649
1976	5,791	6,988
1977	6,096	7,166

*Hunting year: September 1 to August 31.

LAND ACQUISITIONS FOR WILDLIFE MANAGEMENT

in years ending March 31

Year	Acres	Cost
1972	4,620	\$ 903,259
1973	2,569	572,323
1974	595	105,452
1975	948	242,025
1976	403	216,602

FUR HARVESTS — in years ending June 30

Average Pelt Value, 1976		Totals from Sealing	Officers' Reports and	Fur Dealers' Returns		
		1972	1973	1974	1975	1976
\$ 21.09	Beaver	145,290	181,468	175,099	156,105	136,856
11.34	Mink	17,871	20,724	17,975	17,194	14,856
15.29	Marten	25,566	27,649	27,150	18,006	20,768
87.71	Otter	6,700	9,027	8,122	7,507	7,835
113.42	Fisher	3,686	4,399	3,992	2,790	2,165
231.93	Lynx	2,474	5,137	3,698	1,918	1,151
103.10	Bobcat	10	41	52	25	24
4.31	Muskrat	301,357	385,241	513,279	487,238	435,290
19.04	Raccoon	29,361	29,722	40,641	47,560	44,223
.46	Squirrel	3,795	2,748	5,846	6,076	5,817
.35	Weasel	2,827	5,362	4,924	4,689	3,576
55.26	Col'rd Fox	8,702	8,127	13,409	11,809	10,131
33.36	Arctic Fox	323	23	58	127	101
70.36	Timb. Wolf	1,154	839	1,248	741	285
42.47	Coyote	199	397	892	1,319	2,276
50.96	Black Bear	226	322	375	288	283
185.46	Wolverine	1	1	1	1	.....
1.50	Skunk	2	3	57	171	98
.....	Gray Fox .....	.....	.....	.....	.....	.....
452.50	Polar Bear	18	12	18	15	17
Total Pelts		549,562	681,242	816,836	763,579	685,752
Total Value	\$	2,883,164	4,234,962	7,230,167	6,410,167	7,998,707.94

TRAPPER LICENCES

Registered 2,530 @ \$5 = \$12,650

Resident 6,152 @ \$5 = 30,760

Farmer,

 Indian Res. 1,167 @ 00 =

Reg Treaty 2,566 @ \$1 = \$ 2,556

Res Treaty 23 @ \$5 = 115

TOTALS 12,428 \$46,081

HUNTER SAFETY TRAINING PROGRAM

Training began in 1957. It became mandatory for new hunters in 1960 and for new hunters under the age of 20 years in 1968.

Year	ACTIVE INSTRUCTORS at Dec. 31	Yearly	STUDENTS TRAINED To Date	HUNTING ACCIDENTS		
				Non-Fatal	Fatal	Total
1973	1,350	26,998	328,037	81	13	94
1974	1,046	28,900	356,937	102	11	113
1975	1,005	31,450	388,387	85	7	92
1976	1,005	31,785	420,172	50	6	56
1977	1,011	32,126	452,298	67	4	71

PELTS — EXPORTED OR TANNED — in years ending June 30

Pelt	1975		*1976	
	Quantity	Value	Quantity	Value
Beaver	159,984	\$2,873,312.64	138,837	\$2,928,072.33
Bobcat	29	1,475.23	20	2,062.00
Fisher	2,820	169,905.00	2,219	251,678.98
Arctic Fox	152	4,636.00	153	5,104.08
Col'rd Fox	14,183	445,488.03	11,774	650,631.24
Lynx	1,954	248,490.18	1,125	260,921.25
Marten	18,463	146,266.96	21,858	334,208.82
Mink	17,512	148,151.52	15,743	178,525.62
Muskrat	479,671	1,515,760.36	449,291	1,936,444.21
Otter	7,757	363,105.17	7,994	701,153.74
Raccoon	71,172	864,028.08	64,728	1,232,421.12
Weasel .....	.....	.....	.....	.....
Skunk	212	375.24	3	4.50
Wolverine	3	279.33	.....	.....
Total	773,912	6,781,233.74	713,745	8,481,227.89

*Total Royalties Collected: \$265,499.10

PROVINCIAL WILDLIFE AREAS (areas in acres)

Aylmer Provincial Wildlife Area	455
Brighton Provincial Wildlife Area	959
Bruce Recreation Area	9,007
Camden Lake Wildlife Management Area	2,615
Darlington Provincial Park	274
Fingal Provincial Wildlife Area	725
Gananoque Provincial Wildlife Area	1,500
Holiday Beach Provincial Park	489
Holland Marsh Provincial Wildlife Area	1,200
Hoople Creek Provincial Wildlife Area	260
Hullett Provincial Wildlife Area	5,000
Kolapore Uplands Recreational Area	4,805
Long Point Provincial Wildlife Area	849
Luther Marsh Wildlife Area	12,000
Matchedash Bay Provincial Wildlife Area	550
McRae Point Provincial Park	340
Mountain Provincial Wildlife Area	3,600
Nonquon River Wildlife Area	2,800
Point Petre Provincial Wildlife Area	3,153
Presqu'ile Provincial Park	2,170
Puslinch Crown Resource Management Area ..	340
Rankin Wildlife Management Area	2,686
Rondeau Provincial Park	11,500
St. Edmunds Provincial Wildlife Area	7,555
Scugog Island	415
Sibbald Point Provincial Park	556
Tiny Marsh Provincial Wildlife Area	2,300
Wye Marsh Provincial Wildlife Area	2,272
Total, 28 Areas	80,375

WILDLIFE EXTENSION LANDOWNER AGREEMENT AREAS (areas in acres)

Aylmer Ponds	106
Beverly Swamp	1,063
Binbrook	990
Calton Swamp	215
Christie	840
Crooks Hollow	42
Hawk Cliff	83
Lake St. Lawrence	15,000
Mud Lake	150
Orngeville Reservoir	780
Valens	550
Waterford Lakes	350
Willoughby Marsh	560
Total, 13 Areas	20,729

OUTDOOR RECREATION GROUP

PROVINCIAL PARKS BRANCH

Room W-3328, Main Office. Telephone (416) 965-5160.

Branch Director	R. J. Vrancart	W-3328 ... 5-5160
Secretary	Mrs. M. Naumoff	W-3328 ... 5-2745
Operations Supervisor	W. Robertson	W-3330 ... 5-2745
Secretary	(vacant)	W-3330 ... 5-2745
Information Officer (acting)	Mrs. S. F. Faskin	W-3319 ... 5-3081
Operations Officer	D. Barrow	W-3323 ... 5-2745
Recreation Areas Mgmt Officer	M. Garscadden	W-3319-A ... 5-2745
Sanitation Supervisor	S. C. Cowan	W-3317 ... 5-2745
Development Supervisor	G. A. Ashenden	W-3321 ... 5-2745
Secretary	Mrs. G. Shaw	W-3331 ... 5-2745
Development Engineer	I. C. Johnson	W-3322 ... 5-2745
Design Engineer	R. Lockwood	W-3321 ... 5-2745
Visitor Services Supervisor	C. R. Tilt	W-3335 ... 5-2745
Visitor Services Coordinator	W. Yetman	W-3323-A ... 5-2745
A. V. Design Group Leader	L. Walton	W-3303 ... 5-2745
Graphics Group Leader	M. Medved	W-3501 ... 5-2745
Systems Planning Supervisor	Miss E. Lynch	W-3316 ... 5-3981
Secretary	R. A. Beatty	W-3316 ... 5-3981
Senior Planner (Conservation)	D. Hallman	W-3316 ... 5-3981
Senior Planner (Research)	K. McCleary	W-3316 ... 5-3981
Senior Planner (Recreation)	R. Phillips	W-3316 ... 5-3981
Conservation Planner	W. B. Sargent	W-3316 ... 5-3981
Senior Master Planner	D. MacEachern	W-3316 ... 5-3981
Parks Technician	I. Olcay	(Maple) 832-2761
Site Planning Unit Supervisor	G. Pittenger	(Maple) 832-2761
Senior Landscape Architect	H. J. Christian	W-3322 ... 5-6278

PUBLIC USE OF PROVINCIAL PARKS

Year	Vehicle Entries	Interior Campers	Campers	Average Days	Camper Nights	Total of Visitors
1973	3,585,161	99,366	1,600,817	2.2	3,547,215	12,136,909
1974	3,286,106	102,456	1,615,677	2.3	3,702,059	11,031,651
1975	3,401,561	94,280	1,621,887	2.5	3,979,473	11,139,864
1976	3,431,189	99,373	1,515,353	2.5	3,747,209	10,616,237
1977	3,276,625	92,611	1,371,039	2.5	3,807,344	10,431,166

ATTENDANCE AT INTERPRETIVE PROGRAMS

Year	Parks	Exhibits Museums	Self-guiding Trails	Conducted Hikes	Evening Programs	Special Groups	Total
1973	60	433,200	216,436	27,147	178,557	33,974	894,314
1974	55	445,460	228,319	31,048	159,932	54,527	919,286
1975	73	606,630	247,901	38,253	195,775	124,307	1,454,270
1976	73	645,760	288,587	34,277	182,271	.....	1,485,340
1977	73	567,547	416,825	29,603	269,923	616,118	1,900,016

GROWTH OF PROVINCIAL PARKS

Year	Camping Parks		Reserve Areas		Provincial Parks	
	No.	Units	No.	Acreage	No.	Acreage
1973	95	20,209	135	1,258,099	115	10,405,264
1974	95	20,036	128	1,120,861	117	10,416,219
1975	96	20,332	104	1,262,335	121	10,416,219
1976	96	19,851	105	1,257,047	122	10,771,959
1977	97	20,035	107	2,351,800	126	10,775,144

126 PROVINCIAL PARKS IN OPERATION IN 1977

Region, District Provincial Park	Area in Acres	Developed Campsites	Campers	Camper Nights	Total of Visitors
NORTHWESTERN REGION					
RED LAKE					
Pakwash	1,558	59	1,849	3,535	37,506
KENORA					
Rushing River	469	192	19,163	50,059	94,351
Sioux Narrows	325	71	4,553	9,602	23,326
FORT FRANCES					
Caliper Lake	246	92	5,570	10,082	32,294
Lake of the Woods	2,711	100	5,644	14,238	35,521
DRYDEN					
Aaron	173	98	9,855	11,974	52,982
Blue Lake	874	188	14,161	38,952	66,038
SIOUX LOOKOUT					
Ojibway	6,500	50	1,660	5,662	19,542
IGNACE					
Sandbar Lake	7,800	75	7,718	11,512	15,331
Total, 9, Parks	20,656	925	70,173	155,616	376,891
NORTH CENTRAL REGION					
ATIKOKAN					
Quetico	1,505,404	135	12,776	21,430	28,855
THUNDER BAY					
Inwood	82	85	11,007	11,251	3,233
Kakabeka Falls	1,039	151	29,469	41,692	254,624
Middle Falls	11	25	3,637	4,066	9,388
Sibley	60,380	217	16,460	29,644	47,919
NIPIGON					
Blacksand	3,604	66	3,910	6,511	12,858
GERALDTON					
Klotz Lake	293	30	2,196	2,497	4,451
MacLeod	200	85	4,373	4,175	32,676
TERRACE BAY					
Neys	8,512	150	23,291	33,551	30,198
Rainbow Falls	1,422	225	25,126	32,593	31,625
WHITE RIVER					
Obatanga	23,250	117	12,570	19,826	41,586
White Lake	4,265	190	13,810	22,400	45,635
Total, 12 Parks	1,608,462	1,476	158,625	229,636	543,048
NORTHERN REGION					
HEARST					
Fushimi Lake	26,775	40	2,603	6,454	6,240
Nagagamisis	14,446	165	5,823	16,906	28,205
MOOSONEE					
Polar Bear	5,952,000	...	...	...	...
Tidewater	2,421	34	925	1,778	1,601
KIRKLAND LAKE					
Esker Lakes	7,680	136	5,500	16,358	19,780
Kap-Kig-Iwan	824	64	5,762	8,745	30,486
KAPUSKASING					
Remi Lake	7,324	107	6,662	20,521	63,226

Region, District Provincial Park	Area in Acres	Developed Campsites	Campers	Camper Nights	Total of Visitors
COCHRANE					
Greenwater	11,049	108	5,215	13,318	42,139
TIMMINS					
Kettle Lakes	2,454	168	12,380	36,710	48,760
CHAPLEAU					
Five Mile Lake	1,128	46	2,330	4,609	9,689
Ivanhoe Lake	3,000	148	7,229	21,545	51,112
Missinaibi Lake	108,876	48	1,943	8,580	3,040
The Shoals	27,670	58	2,979	7,038	16,908
Wakami Lake	21,760	68	3,408	15,547	23,258
Total, 14 Parks	6,187,407	1,190	62,759	178,109	344,444
NORTHEASTERN REGION					
WAWA					
Lake Superior	384,640	353	33,958	43,139	118,955
SAULT STE. MARIE					
Batchawana	418	...	...	...	...
Pancake Bay	1,151	340	34,964	57,324	152,761
BLIND RIVER					
Mississagi	7,124	102	5,392	19,432	58,438
ESPANOLA					
Chutes	270	91	16,608	25,748	85,116
SUDSBURY					
Fairbank	260	160	8,769	27,207	49,823
Halfway Lake	58,240	215	13,562	17,745	36,517
Killarney	84,328	140	7,815	38,512	45,286
Windy Lake	343	76	9,144	17,917	55,550
TEMAGAMI					
Finlayson Point	92	114	10,505	19,843	13,444
NORTH BAY					
Antoine	30	30	892	1,745	2,153
Marten River	989	216	13,836	35,666	78,842
Restoule	1,635	278	13,399	46,633	67,688
Samuel de Champlain	5,805	216	13,065	27,564	42,987
Total, 14 Parks	545,325	2,331	181,909	378,475	807,560
ALGONQUIN REGION					
PARRY SOUND					
Grundy Lake	6,310	520	27,831	89,950	122,048
Killbear	4,340	967	39,003	179,996	240,125
Oastler Lake	78	161	12,988	37,066	92,250
Sturgeon Bay	35	82	5,895	19,913	22,863
BRACEBRIDGE					
Arrowhead	1,920	386	27,007	90,121	142,817
Mikisew	133	258	9,986	40,045	41,278
BANCROFT					
Lake St. Peter	62	60	3,042	9,723	36,697
Petroglyphs	3,842	...	...	...	13,067
Silent Lake	1,900	145	7,650	15,108	38,940
ALGONQUIN PARK					
Algonquin	1,862,400	1,365	87,835	261,247	558,504
Driftwood	665	88	8,666	13,827	9,196

Region, District Provincial Park	Area in Acres	Developed Campsites	Campers	Camper Nights	Total of Visitors
PEMBROKE					
Bonnechere	280	114	6,178	21,554	12,532
Carson Lake	32	45	2,410	6,363	2,503
Total, 13 Parks	1,881,997	4,191	238,491	784,913	1,332,820
EASTERN REGION					
OTTAWA					
Fitzroy	457	250	16,151	37,137	158,642
Rideau River	242	186	12,133	27,171	90,515
CORNWALL					
Carillon	1,715	302	16,701	39,435	133,473
South Nation	13	28	2,252	3,117	16,016
BROCKVILLE					
Charleston Lake	2,230	227	14,034	44,612	92,655
LANARK					
Silver Lake	107	175	14,284	29,394	68,394
Murphys Point	2,810	71	603	1,636	5,510
TWEED					
Bon Echo	16,417	530	27,778	103,441	165,794
Sharbot Lake	170	191	9,891	28,615	65,376
NAPANEE					
Ferris	490	165	4,155	8,740	29,942
Lake on the Mountain	5	...	...	...	...
North Beach	221	...	...	...	60,424
Outlet Beach, Sandbanks ..	2,477	482	24,645	95,343	281,369
Presqu'ile	2,170	500	29,811	67,594	222,198
Total, 15 Parks	29,524	3,107	172,438	486,235	1,390,308
CENTRAL REGION					
LINDSAY					
Balsam Lake	1,109	526	29,830	89,189	133,463
Darlington	274	360	34,391	65,546	155,903
Emily	207	299	19,138	50,675	143,578
Mark S. Burnham	97	...	...	...	...
Serpent Mounds	138	113	11,222	32,262	92,374
HURONIA					
Bass Lake	98	92	15,155	27,929	187,562
Devil's Glen	14	45	5,727	11,167	47,719
Earl Rowe	742	588	30,635	79,240	152,009
Mara	112	100	7,242	21,394	34,149
McRae Point	340	202	9,659	27,678	25,826
Six Mile Lake	203	192	21,121	41,338	162,275
Springwater	116	...	...	...	63,574
Wasaga Beach	344	...	...	...	813,990
(Nancy Island) .....	...	...	...	...	...
MAPLE					
Sibbald Point	556	656	45,320	107,613	254,372
CAMBRIDGE					
Bronte Creek	1,583	...	...	...	230,080
NIAGARA					
Rock Point	241	47	5,783	9,455	54,531
Total, 16 Parks	6,174	3,220	235,223	563,486	2,552,405

Region, District Provincial Park	Area in Acres	Developed Campsites	Campers	Camper Nights	Total of Visitors
SOUTHWESTERN REGION					
SIMCOE					
Long Point	849	295	17,433	61,421	430,010
Selkirk	145	160	6,929	18,585	56,435
Turkey Point	782	201	11,182	29,730	356,773
AYLMER					
Iroquois Beach	560	232	10,441	31,697	150,769
John E. Pearce	168	...	...	...	...
Port Bruce	13	...	...	...	...
CHATHAM					
Holiday Beach	227	45	4,158	14,730	249,235
Ipperwash	201	264	16,129	69,431	208,000
Pinery	5,762	1,022	72,513	271,573	472,856
Rondeau	11,900	226	20,554	60,996	431,265
Wheatley	596	250	13,465	31,548	69,570
WINGHAM					
Point Farms	760	200	14,825	47,663	202,561
OWEN SOUND					
Craigleath	162	170	17,475	37,190	105,400
Cypress Lake	1,654	242	21,874	55,733	136,940
Inverhuron	713	...	...	...	...
MacGregor Point	1,066	136	10,353	31,464	152,940
Sauble Falls	50	152	14,090	33,350	60,936
Total, 17 Parks	25,608	3,595	251,421	795,111	3,083,690
WILD RIVER PARKS					
Chapleau-Nemegosenda	25,000	(Chapleau)	...	...	...
Lady Evelyn	6,088	(Temagami)	...	...	...
Mattawa	8,050	(North Bay)	...	...	...
Mississagi	11,635	(Blind River, Espanola, Chapleau)	...	...	...
Winisk	415,400	(Geraldton)	...	...	...
Total, 5 Parks	466,173	...	...	...	...
NATURE RESERVES					
Cavern Lake	467	(Thunder Bay)	...	...	...
Gibson River	415	(Huronia)	...	...	...
Matawatchan	160	(Pembroke)	...	...	...
Montreal River	108	(Sault Ste. Marie)	...	...	...
Ouimet Canyon	1,920	(Thunder Bay)	...	...	...
Porphyry Island	264	(Thunder Bay)	...	...	...
Trillium Woods	25	(Aylmer)	...	...	...
Waubashene Beaches	84	(Huronia)	...	...	...
Ojibway Prairie	161	(Chatham)	...	...	...
East Sister Island	131	(Chatham)	...	...	...
Peters Woods	83	(Lindsay)	...	...	...
Total, 11 Parks	3,818	...	...	...	...
TOTAL, 126 Parks	10,775,144	20,035	1,371,039	3,571,581	10,431,166

107 PROVINCIAL PARK RESERVE AREAS—1977

Region, District Reserve Area	Area (Acres)	Region, District Reserve Area	Area (Acres)
NORTHWESTERN REGION			
RED LAKE		COCHRANE	
Berens Dowling	8,921	Long Point Peninsula	18,500
Lund Lake	679	Otter Rapids	486
Stout Lake	555,520	Pierre-Montreuil	42,088
Telescope Lake	1,934	KAPUSKASING	
Woodland Caribou	896,000	Missinaibi W. R.	27,505
KENORA		TIMMINS	
Pipestone Peninsula	3,530	Dana-Jowsey Lakes	6,400
Pistol Lake	4,024	KIRKLAND LAKE	
FORT FRANCES		McCann	640
Pow-Wow Grounds	1,730	CHAPLEAU	
Sand Point Island	2,197	Missinaibi Lake	45,552
Total, 9 Areas	<u>1,474,535</u>	The Shoals	15,816
NORTH CENTRAL REGION		GOGAMA	
ATIKOKAN		Dividing Lake	19,240
Warner Lake	745	La Motte Lake	1,250
White Otter Lake	60,000	Total, 13 Areas	<u>209,847</u>
THUNDER BAY		NORTHEASTERN REGION	
Arrowhead Peninsula	850	WAWA	
Arrow Lake	1,000	Pothole	870
Inwood	1,000	SAULT STE. MARIE	
Kashabowie	19,130	Mark's Bay	258
LaVerendrye W. R.	3,240	BLIND RIVER	
Silver Falls	8,988	Aubrey Falls	17,000
NIPIGON		Mashagama	640
Cypress River	600	Mississagi	97,000
Gravel Bay	250	ESPAÑOLA	
Gravel River	800	La Cloche	12,278
Humboldt Bay	73,000	SUDBURY	
Kopka Lake	10,000	Halfway Lake	58,240
Partridge Lake	6,500	Wanapitei Lake	3,334
GERALDTON		TEMAGAMI	
Esnagami Lake	58,000	W. B. Greenwood	23,000
Lukinto Lake	2,250	NORTH BAY	
Purgatory Chutes	100	Restoule	1,155
TARRACE BAY		South Bay	3,963
Slate Islands	9,793	Total, 11 Areas	<u>217,738</u>
Steel River	2,700	ALGONQUIN REGION	
WHITE RIVER		PARRY SOUND	
Kakakiwibik Lake	58,881	Blackstone Harbour	16,734
Kawapitapika Lake	2,800	Magnetawan River W. R.	19,572
Total, 21 Areas	<u>320,627</u>	McDonald Bay	1,100
NORTHERN REGION		O'Donnell Point	2,130
HEARST		Round Lake	24,265
Fushimi Lake	26,775	Shawanaga Basin	2,560
Nagagami Lake	4,085	South Limestone Island	11
Rogers	1,510		

Region, District Reserve Area	Area (Acres)	Region, District Reserve Area	Area (Acres)
BRACEBRIDGE		Scott's Falls	1,207
Bigwind Lake	5,625	Wasaga Backlands	2,100
Chetwynd	210	MAPLE	
Ragged Falls	344	Cheltenham	246
MINDEN		Credit Forks	507
Red Pine Lake	7,200	Duclos Point	338
Buckhorn	950	Grange Property	350
BANCROFT		CAMBRIDGE	
Kawartha Highlands	3,800	Cranberry Bog	20
McKenzie Lake	3,408	NIAGARA	
PEMBROKE		James N. Allen	278
Centennial Lake	10,025	Short Hills	1,259
Madawaska W. R.	2,600	Total, 26 Areas	23,833
Round Lake	307		
Total, 17 Areas	100,841		
EASTERN REGION		SOUTHWESTERN REGION	
BROCKVILLE		AYLMER	
Blue Mountain	1,795	Komoka	300
LANARK		CHATHAM	
Kilmarnock	63	Tremblay Beach	154
Mouth of Tay	159	OWEN SOUND	
TWEED		Cyprus Lake	709
Baudner Property	86	Fathom Five	329
NAPANEE		Stokes Bay	703
Casey Point	81	Total, 5 Areas	2,195
Total, 5 Areas	2,184	TOTAL, 107 Areas	2,351,800
CENTRAL REGION			
LINDSAY			
Harris Island	186		
Indian Point	2,118		
Kendal Recreation Area	863		
Quackenbush Site	121		
Scugog Island	415		
Wolf Island	464		
HURONIA			
Allandale	198		
Bass Lake (PP extension)	75		
Bass Lake	457		
Boyne Valley (Primrose)	2,652		
Couchiching	108		
Devil's Glen	135		
Giant's Tomb	1,184		
Lavender Falls	499		
Matchedash	6,200		
Mono Rocks	1,313		
Nottawasaga Lookout	540		

OUTDOOR RECREATION GROUP

FISHERIES BRANCH

2nd Floor, Section 3, Main Office. Telephone (416) 965-7887.

Branch Director	K. H. Loftus	7887
Fisheries Policy Development Section		
Fisheries Demand Planner	F. P. Maher, Spvr	7887
Fisheries Supply Planner	N. W. Smith	7887
Fisheries Services Section	E. T. Cox	7887
Data Systems and Analyses	J. C. Weir, Spvr	7887
Fisheries Information	W. G. Simpson	7887
Population Dynamics Section	A. A. Wainio	7887
	C. H. Olver, A/Spvr	7887

2nd Floor, Section 4, Main Office.

Commercial Fisheries Section	J. W. Rousom, Spvr	3345
Commercial Fish Management	M. D. Casselman	7887
Environmental Dynamics Section	D. P. Dodge, Spvr	7887
Habitat Enhancement	R. M. Biette	7887
Habitat Maintenance	J. T. Allin	7887
Lake & Stream Surveys	G. A. Goodchild	7887
Fish Culture Section	G. C. Armstrong, Spvr	7887
Hatchery Development	J. M. Byrne	7887
Hatchery Information	E. A. White	7887

Box 50, Maple, Ontario L0J 1E0. Telephone (416) 832-2761.

Fisheries Research Section	A. H. Lawrie, Spvr	Ext. 251
Brook Trout	J. M. Fraser	Ext. 251
Lake Trout	N. V. Martin	Ext. 251
Smallmouth Bass	J. A. MacLean	Ext. 251
Limnology	A. M. McCombie	Ext. 251
Systems Ecology	B. Shuter	Ext. 251
Selective Breeding	A. H. Berst	Ext. 251
Selective Breeding	P. Ihssen	Ext. 292
Harkness Memorial Lab	D. Cucin	Ext. 251
Box 110, Whitney, Ontario K0J 2M0		(705) 637-2103

RESEARCH STATIONS

Thunder Bay Fisheries Research Station Productivity Unit, Box 2089	R. A. Ryder	(807) 683-6232
Thunder Bay, Ontario P7B 5E7	P. J. Colby	(807) 475-1635
Walleye Unit, Box 5000	T. W. Kwain	(705) 942-1411
Thunder Bay, Ontario P7C 5G6	G. R. Spangler	(705) 859-3137
Sault Ste. Marie Research Station 875 Queen Street East, Sault Ste. Marie, Ontario P6A 2B3	J. A. Reckahn	3137
South Baymouth Fisheries Laboratory R.R. 1, Tehkummah, Ontario P0P 2C0	S. J. Nepszy	(519) 825-4171
	J. H. Leach	4171
Wheatley Fisheries Research Station R.R. 2, Wheatley, Ontario N0P 2P0	W. J. Christie	(613) 476-2400
	D. A. Hurley	2400
Glenora Fisheries Research Station R.R. 4, Picton, Ontario K0K 2T0		

FISH PLANTINGS — Numbers in 000s of Fish and Eggs Stocked from Ontario Fish Culture Stations

F — Fish E — Eggs

Species		1973	1974	1975	1976	1977
Bass, Largemouth	F	59	167	209	140	92
Bass, Smallmouth	F	240	173	106	106	208
Maskinonge	F	600	1,253	1,186	1,360	949
Pickerel, Yellow	E	10,700	11,210	8,210	7,700	7,200
	F	....	....	350	160	660
Salmon, Chinook	F	....	225	....	....	....
Salmon, Coho	F	218	438	226	222	209
	F	487	370	556	678	957
Trout, Brook	E	660	....	....	....	....
	F	1,438	1,939	1,522	1,597	1,878
Trout, Lake	E	....	....	76	252	120
	F	1,334	1,744	1,258	2,339	2,214
Trout, Rainbow	E	1,290	1,267	625	125	350
	F	711	763	1,023	1,308	1,642
Total		17,737	19,549	15,347	15,987	15,939

COMMERCIAL FISHING LICENCES

Year	Food-Fish Harvesting	Bait-Fish Harvesting	Bait-Fish Dealers	Bait-Fish Preservers	Total
1973	1,149	1,611	1,868	111	4,739
1974	1,116	1,623	1,832	110	4,680
1975	1,121	1,590	1,606	96	4,413
1976	1,086	1,595	1,753	107	4,541
1977	1,056	1,605	1,731	98	4,490

ANGLING LICENCES

Year	Number Sold to Non-Residents
1973	701,595
1974	656,960
1975	647,848
1976	627,364
1977	630,120

FISH DISTRIBUTION

from Ontario Fish Culture Stations in 1977

(e — eggs) (f — fry)

Total weight in Pounds in Parentheses

Station	Brook Trout	Lake Trout	Rainbow Trout	Splake	Other Species
Chatsworth .....	...	74,912 (1,690)	...	665,992 (51,742)	Coho 209,396 (10,202)
Codrington	51,300 (11,944)	...	48,100 (1,914)	...	...
Deer Lake	24,704 (3,136)	87,600 (1,186)	80,106 (7,032)	...	Maskinonge 949,493 (306)
Hill Lake	672,491 (13,053)	120,000e 475,903 (12,644)	...	...	...
Normandale .....	...	...	350,000e 399,980 (39,641)	...	...
North Bay	373,636 (26,120)	470,338 (15,347)	43,253 (933)	...	...
Pembroke	111,758 (11,085)	235,510 (14,238)	...	16,225 (1,474)	...
Sandfield	131,750 (9,280)	...	382,500 (255)	140,772 (6,646)	Smallmouth Bass 209,650 (561)
Skeleton Lake	190,009 (11,639)	141,301 (5,618)	34,620 (5,669)	100,000 (3,333)	...
Tarentorus	184,100 (15,783)	358,238 (9,849)	9,600 (568)	39,836 (1,892)	...
Westport	56,350 (5,490)	78,900 (2,900)	...	...	Largemouth Bass 92,000 (137)
White Lake	82,225 (8,487)	291,290 (4,835)	4,000 (148)	58,500 (73)	Yellow Pickerel 7,200,000e 650,000f 10,000 (16)
Wiarton .....	...	...	40,150 (8)	...	...

ONTARIO COMMERCIAL FISH HARVEST, 1977 — by Species and Waters

Fish Species	Lake Ontario	Lake Erie	Lake Huron	Georgian Bay
Alewives	—	—	—	500
Bowfin	4,303	36,555	—	330
Bullhead	400,280	98,186	50	1,958
Burbot	19	—	21	2,557
Carp	237,382	93,296	19,347	17,341
Catfish	7,062	54,369	66,982	840
Chub (Deepwater cisco)	—	—	85,984	381,972
Coho	379	1,663	153	38
Crappie	6,424	1,353	—	—
Eel	414,197	233	12	—
Freshwater Drum (Sheepshead)	5,074	400,186	1,360	—
Goldeye	—	—	—	—
Lake Herring	11,725	—	1,263	41,004
Lake Trout	1,277	35	6,836	846
Lake Whitefish	9,447	5,067	1,244,050	159,708
Northern Pike	15,125	69,949	829	8,454
Rock Bass	58,786	41,549	190	2,567
Round Whitefish (Menominee)	899	—	12,067	32,587
Sauger	12	1	—	1,882
Shad	1,675	—	6,218	—
Smelt	50,625	22,993,548	257	16,944
Splake	—	—	27,517	672
Sturgeon	4,306	4,523	4,083	1,024
Sucker (Mullets)	11,616	18,705	90,505	71,439
Sunfish	171,330	71,980	—	—
White Bass	13,638	986,283	4,254	649
White Perch	425,203	—	—	—
Yellow Perch	583,730	8,509,755	230,892	141,629
Yellow Pickerel	3,389	529,453	273,938	115,206
Animal Food (Unclassified)	22,617	1,936,957	294,017	12,933
Total Landings (lbs)	2,460,520	35,853,556	2,370,825	1,013,080
Total Landed Value	\$760,934	\$7,736,701	\$1,655,099	\$685,244

ONTARIO COMMERCIAL FISH HARVEST, 1977 — by Species and Waters

North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings (lbs)	Total Value
—	—	—	—	500	\$ 0
—	—	—	—	41,188	1,925
2,012	—	8,302	114,819	625,337	185,981
1,232	63,728	391,773	2,250	461,580	8,065
8,449	536	—	103,885	480,236	97,898
395	—	—	13,942	143,590	67,762
3,732	765,268	100,738	—	1,337,694	875,238
1,261	1,776	—	—	5,270	2,959
—	—	16,944	1,689	26,410	16,450
—	—	—	5,287	419,729	159,096
—	—	453	858	407,931	16,719
—	—	1,851	—	1,851	415
9,835	1,761,701	91,497	—	1,917,025	391,559
908	203,138	36,203	—	249,243	160,264
189,046	242,803	1,360,944	—	3,211,065	1,988,833
23,730	5,443	567,792	1,422	692,744	218,739
6,290	34	45,908	9,354	164,588	67,069
8,259	33,859	—	—	87,671	20,189
—	15	19,581	—	21,491	6,558
—	—	—	—	7,893	75
—	478,620	—	—	23,539,994	1,634,802
883	—	—	—	29,072	22,795
3,866	179	7,609	12,824	38,414	61,925
65,097	142,257	1,006,418	14,220	1,420,257	51,761
—	—	—	40,416	283,726	61,671
40	2,475	813	334	1,008,486	551,471
—	—	—	13,779	438,982	97,374
58,932	145,644	9,917	24,692	9,705,191	5,522,057
18,887	3,527	1,575,443	—	2,519,843	2,229,301
99,606	12,054	193,987	13,540	2,585,711	35,662
502,460	3,863,057	5,435,903	373,311	51,872,712	—
\$210,786	\$1,172,175	\$2,216,817	\$116,957	—	\$14,554,613

ONTARIO COMMERCIAL FISH HARVEST — by Species in 000s lbs and \$000s

Species	1973	1974	1975	1976	1977	Value 1977
Bowfin	51	56	57	39	41	\$ 2
Bullhead	449	477	600	584	625	186
Burbot (Ling)	321	387	383	293	462	8
Carp	725	631	636	646	480	98
Catfish	180	187	265	136	144	68
Chub (Deepwater Cisco)..	944	1,050	1,317	1,612	1,338	875
Coho .....	....	....	....	....	5	3
Eel	198	229	349	348	420	159
Freshwater Drum	543	396	408	380	408	17
Goldeye .....	....	1	2	....	2	....
Lake Herring (Cisco)	2,447	2,306	2,292	1,449	1,917	392
Lake Trout	209	229	233	230	249	160
Lake Whitefish	1,984	2,359	2,449	2,552	3,211	1,989
Northern Pike	647	725	608	604	693	219
Rock Bass and Crappie ..	137	129	187	221	191	84
Round Whitefish	56	66	91	138	88	20
Sauger	28	49	46	28	21	7
Smelt	17,557	16,902	17,333	18,245	23,540	1,635
Splake .....	....	....	....	....	29	23
Sturgeon	38	25	27	35	38	62
Sucker (Mullet)	1,058	1,170	1,333	1,347	1,420	52
Sunfish	360	372	478	391	284	62
White Bass	1,512	2,359	2,580	1,131	1,008	551
White Perch	299	293	387	748	439	97
Yellow Perch	19,075	13,411	9,449	6,119	9,705	5,522
Yellow Pickerel	1,391	1,430	1,377	1,531	2,520	2,229
Animal Food	2,817	7,987*	2,446	2,298	2,595	35
Total Landings (000s lbs)	53,053	53,225	45,363	41,105	51,873	
Total Landed Value (\$000s)	10,376	9,654	11,052	12,513		14,555

*Includes alewives and shad

ONTARIO COMMERCIAL FISH HARVEST — by Waters in 000s lbs and \$000s

Year	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay	North Channel	Lake Superior	Northern Inland	Southern Inland	Total	Total Value
1973	2,356	39,829	.....	1,120	1,069	350	3,537	4,267	524	53,053	\$ 10,376
1974	2,364	38,686	.....	1,730	1,025	616	3,942	4,411	451	53,225	9,654
1975	2,777	30,549	.....	1,830	1,142	362	3,769	4,532	402	45,363	11,052
1976	2,914	25,711	.....	2,217	1,082	585	3,891	4,310	395	41,105	12,513
1977	2,461	35,854	.....	2,371	1,013	502	3,863	5,436	373	51,873	14,555

LAKE ONTARIO COMMERCIAL FISH HARVEST — by Species in 000s lbs and \$000s

Year	Bullhead and Catfish	Carp	Eel	Lake Herring	Smelt	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total Value
1973	257	413	188	17	99	208	287	757	130	2,356	\$ 466
1974	271	395	222	33	103	202	290	702	146	2,364	506
1975	378	414	370	27	104	300	381	599	204	2,777	782
1976	351	429	342	15	91	226	729	574	157	2,914	1,003
1977	407	237	414	12	51	171	425	594	160	2,461	701

LAKE ERIE COMMERCIAL FISH HARVEST — by Species in 000s lbs and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Smelt	White Bass	Yellow Perch	Yellow Pickerel	Other Species	Total	Total Value
1973	182	60	508	17,062	1,497	18,035	65	2,420	39,829	\$ 7,038
1974	197	42	361	15,800	2,346	12,205	234	7,501	38,686	5,634
1975	278	64	331	16,921	2,563	8,213	125	2,054	30,549	6,009
1976	177	53	341	17,190	1,120	4,646	254	1,930	25,711	5,990
1977	153	93	400	22,999	986	8,510	529	2,189	35,854	7,737

LAKE HURON COMMERCIAL FISH HARVEST — by Species in 000s lbs and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total Value
1973	55	106	6	374	13	89	123	121	233	1,120	\$ 423
1974	44	50	2	628	6	72	314	198	416	1,730	770
1975	42	95	6	655	15	56	376	206	379	1,830	1,019
1976	42	106	2	890	26	144	402	150	455	2,217	1,408
1977	19	86	1	1,244	12	91	231	274	413	2,371	1,655

GEORGIAN BAY COMMERCIAL FISH HARVEST — by Species in 000s lbs and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total Value
1973	28	622	58	140	18	72	30	48	53	1,069	\$ 377
1974	3	613	54	146	32	34	60	46	37	1,025	467
1975	2	692	27	142	25	40	127	47	40	1,142	649
1976	15	619	20	87	34	30	146	84	47	1,082	807
1977	17	382	41	160	33	71	142	115	52	1,013	685

NORTH CHANNEL COMMERCIAL FISH HARVEST — by Species in 000s lbs and \$000s

Year	Smelt	Lake Whitefish	Northern Pike	Round Whitefish	Sturgeon	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total Value
1973	176	15	9	8	57	12	26	47	350	\$ 150
1974	208	176	13	8	7	70	18	25	91	616	175
1975	104	16	10	6	87	39	24	76	362	138
1976	94	30	45	4	133	163	24	92	585	267
1977	189	24	8	4	65	59	19	139	502	211

LAKE SUPERIOR COMMERCIAL FISH HARVEST — by Species in 000s lbs and \$000s

Year	Chub	Lake Herring	Lake Trout	Lake Whitefish	Smelt	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total Value
1973	149	2,235	180	348	390	140	64	1	30	3,537	\$ 706
1974	309	2,036	198	330	788	155	67	3	56	3,942	852
1975	455	2,162	182	296	303	222	65	1	83	3,769	1,011
1976	813	1,320	170	261	948	166	143	1	69	3,891	1,247
1977	765	1,762	203	243	479	142	146	4	119	3,863	1,172

NORTHERN INLAND COMMERCIAL FISH HARVEST — by Species in 000s lbs and \$000s

Year	Burbot	Chub	Lake Herring	Lake Trout	Lake Whitefish	Northern Pike	Sucker (Mullet)	Yellow Pickerel	Other Species	Total	Total Value
1973	306	61	125	28	928	592	671	1,125	431	4,267	\$ 1,121
1974	347	69	172	29	1,063	654	773	921	383	4,411	1,156
1975	346	68	61	39	1,246	543	878	969	382	4,532	1,333
1976	259	72	68	42	1,216	512	832	1,016	293	4,310	1,667
1977	392	101	91	36	1,361	568	1,006	1,575	306	5,436	2,217

SOUTHERN INLAND COMMERCIAL FISH HARVEST — by Species in 000s lbs and \$000s

Year	Bullhead and Catfish	Carp	Lake Whitefish	Rock Bass & Crappie	Sucker (Mullet)	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total Value
1973	141	166	1	20	17	88	12	45	34	524	\$ 94
1974	119	138	.....	13	31	76	3	36	35	451	95
1975	143	103	.....	16	14	62	6	22	36	402	110
1976	130	98	.....	15	9	66	19	39	19	395	125
1977	129	109	.....	11	14	48	14	25	36	373	117

EMPLOYMENT AND INVESTMENT

Classification		Lake Ontario	Lake Erie	Lake Huron
MEN EMPLOYED	Number	418	660	121
FISHING BOATS				
40' and Over	Number	3	117	26
	Tons	50	3,257	515
	Value — \$	100,000	5,570,000	1,130,600
20' to 39'	Number	65	30	18
	Value — \$	318,650	228,850	124,300
Under 20'	Number	206	67	13
	Value — \$	156,415	52,178	8,950
FISHING GEAR				
Gill Nets	Yards	990,439	6,275,990	1,133,600
	Value — \$	421,445	2,511,628	540,408
Pound Nets	Number	—	57	5
	Value — \$	—	108,000	3,100
Trap Nets	Number	86	154	142
	Value — \$	57,500	233,650	204,400
Hoop Nets	Number	856	182	—
	Value — \$	213,840	45,800	—
Seine Nets	Yards	2,945	3,633	—
	Value — \$	13,350	25,850	—
Night Lines	Hooks	29,634	9,402	450
	Value — \$	10,906	5,650	500
Dip Nets	Number	8	7	1
	Value — \$	154	120	5
Trawls	Number	—	261	5
	Value — \$	—	336,450	5,000
SHORE INSTALLATIONS				
Freezers and Ice Houses	Number	36	28	18
	Value — \$	105,520	699,800	151,800
Piers & Wharves	Number	44	40	13
	Value — \$	107,050	87,994	52,530
Net Sheds	Number	95	105	32
	Value — \$	159,750	732,118	406,000
Miscellaneous Equipment	Value — \$	2,650	2,500	500
NEW CAPITAL INVESTMENT				
Engines	Value — \$	24,844	313,255	74,650
Hulls	Value — \$	14,750	244,700	375
Fishing Gear	Value — \$	68,455	399,817	106,076
Wheel House	Value — \$	3,526	107,500	18,296
Other Equipment	Value — \$	10,500	—	—
TOTAL VALUE — \$		\$1,789,305	\$11,705,860	\$2,827,490

IN ONTARIO COMMERCIAL FISHERY, 1977

Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
123	58	193	552	88	2,213
22	11	24	6	—	209
452	211	496	76	—	5,057
800,500	168,000	1,046,500	129,200	—	8,944,800
30	7	31	46	7	234
148,850	9,400	213,855	186,510	9,460	1,239,875
50	20	55	250	51	712
36,525	12,550	61,605	279,295	23,800	631,318
992,400	353,700	275,100	587,985	33,500	10,642,714
528,500	139,900	150,010	393,455	17,080	4,702,426
7	15	7	29	—	120
26,000	18,900	10,400	25,900	—	192,300
7	13	10	89	3	504
7,800	8,100	11,750	88,736	2,500	686,436
—	—	1	82	411	1,532
—	—	600	10,925	55,940	327,105
—	—	—	—	880	7,548
—	—	—	—	4,825	44,025
—	—	—	500	2,500	42,486
—	—	—	20	600	17,676
6	1	63	4	5	95
32	30	615	50	65	1,071
—	—	10	—	—	276
—	—	9,850	—	—	351,300
38	11	38	119	15	303
169,469	87,520	527,245	460,829	18,400	2,220,583
31	8	39	95	8	278
55,500	17,850	66,550	114,197	18,950	520,621
39	16	56	96	21	460
150,850	59,600	107,300	136,044	31,100	1,782,762
—	—	9,500	13,575	—	28,725
35,650	8,877	13,950	75,152	6,986	553,364
68,800	18,700	88,650	94,092	6,325	536,392
76,070	27,471	66,800	57,288	9,095	811,072
10,835	13,003	17,593	7,798	—	178,551
9,000	—	2,000	13,395	600	35,495
\$2,124,381	\$589,901	\$2,404,773	\$2,086,461	\$205,726	\$23,769,897

EMPLOYMENT AND INVESTMENT IN ONTARIO COMMERCIAL FISHERY

Year	Men	Boats 40' and Over	Boats Under 40'	Gill Nets 000s yds	Pound Nets	Trap Nets	Hoop Nets	Seine Nets 000s yds	Freezers and Ice Houses	Wharves and Piers	Net Sheds	New Investment \$000s	Total Value \$000s
1973	2,215	210	994	9,372	98	451	1,478	78	310	275	564	1,235	\$ 14,131
1974	2,208	176	992	10,302	117	455	1,574	64	326	287	515	1,438	16,779
1975	2,220	198	966	10,117	104	466	1,715	76	323	250	477	1,557	18,254
1976	2,171	207	895	10,856	71	460	1,523	82	327	257	461	1,807	21,651
1977	2,213	209	946	10,643	120	504	1,532	75	303	278	450	2,195	23,775

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Room W-6616, Main Office. Telephone (416) 965-6045.

Executive Co-ordinator	J. W. Keenan	W-6616 6045
Administration	J. Botterill	W-6637 2724
Program Analyst	G. Kettel	W-6616 1075
Director, Indian Resource Policy	E. G. Wilson	W-6616 6046

LANDS ADMINISTRATION BRANCH

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Eastern Ontario Mining Recorder	D. S. Andrews	W-1506 1322
Eastern Ont. Mining Claims Inspector	D. H. Leaper	(705) 743-6489
31 Springbrook Drive, Kawartha Heights, Peterborough L9J 1L3		
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Land Acquisition Officer	J. Brazas	W-6606 2738
Property Management	L. Hall	W-6606 2738
Titles Section	W. L. Good, Spvr	W-6605 1319
Document Officer	C. D. Egerton	W-6504 1319
Acreage Tax Administrator	Mrs. D. R. Holland	W-6605 1319
Records Officer	R. E. Dixon	W-6605 1319

MINING LANDS — in years ending March 31

Year	PATENTS		Renewals		LEASES		New		Surface Rights		LICENCES OF OCCUPATION		QUIT CLAIM DEEDS AND REGRANTS	
	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres
1974	3	124	26	1,571	80	23,721	4	820	2	400,850	40	3,408,400		
1975			210	11,887	99	23,218	3	295	1	9,725	32	1,632,150		
1976			142	6,649	61	26,145				107,290	3	1,134,408		
1977			221	7,735	141	48,278	4	484	3	21,530	20	1,146,000		
1978			131	5,775	92	37,915	1	92	5	1,986,300	119	8,275		

PROSPECTING ACTIVITIES — in years ending March 31

Year	MINING CLAIMS			ASSESSMENT WORK (Days)		QUARRY PERMITS Issued		MINERS LICENCES	
	Recorded	Cancelled	In Good Standing					Issued	Renewed
1974	20,710	17,563	44,241	784,155		650		1,152	2,057
1975	20,343	20,003	47,795	799,980		799		1,145	2,044
1976	20,290	14,879	44,096	697,297		764		1,128	2,590
1977	21,046	21,108	49,099	672,386		789		1,170	2,418
1978	14,747	20,786	41,548	644,811		1,087		943	2,000

PUBLIC LAND — in years ending March 31

Year	Patents**		LEASES		LICENCES OF OCCUPATION	
	No.	Acres	No.	Acres	No.	Acres
1974	361	4,203	396	967	61	241
1975	230	2,738	656	1,359	88	843
1976	275	4,524	439	1,253	70	4,014
1977	256	5,554	197	1,465	141	25,255
1978	189	2,643	311	719	165	7,188

LANDS ACQUIRED BY CROWN — Acres in years ending March 31

Year	Provincial Tax Forfeitures	Cancellation of Sales	Purchased Or-Otherwise Acquired	Total	Acreage Tax Forfeitures
1974	1,896	240	1,541,291	1,543,427	33,000
1975	831	5	13,062	13,898	28,000
1976	662	1	5,744	6,407	27,012
1977	16	.....	2,771	2,787	25,000
1978	2	8	12,344	12,354	25,073

USE OF ACQUIRED LANDS — Acres in years ending March 31

Year	Provincial Parks	Access Points	Wilderness Areas	Sport Fisheries	Wildlife Mngt	Timber Mngt	District Imprvmts	Total
1974	16,363	6	294	55	595	3,506	206	21,024
1975	10,359	10	50	2	2,435	200	6	13,062
1976	5,209	29	86	16	403	.....	.....	5,743
1977	1,573	348	.....	200	613	4	.....	2,738
1978	1,353	10	.....	.....	275	10,706	.....	12,344

**Amalgamation of statistics previously reported under Free Grant Land, Agricultural Land, Summer Resort Land, Land for Special Use, and Cities, Towns and Townplots.

LANDS AND WATERS GROUP

SURVEYS AND MAPPING BRANCH

Room W-6602, Main Office.

Telephone (416) 965-6225.

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Co-ordinator, Mapping Services	J. Haddon	W-6604 4941
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Lake Resources Inventory	W. G. Martin	W-2401 3319
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	B. Jackson	W-2615 1208
	D. W. Robeson	W-2617 1823
Nomenclature		
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Ontario Centre for Remote Sensing	V. Zsilinszky	880 Bay St. 8411
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Ontario Land Inventory	J. Watts	8411

LANDS AND WATERS GROUP

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Room W-3403, Main Office. Telephone (416) 965-2899.

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Land Use Planning Section	M. S. Millar, Spvr	W-3403 2899
Project Planner	J. R. M. Williams	W-3403 2899
Lake Planning	N. C. Gordon	W-3403 2899
Land Use Liaison Section	E. M. Cressman, Spvr	W-3403 2899
Plan Review Section	D. J. Johnstone, Spvr	W-3403 5344
Local Plan Analyst	Mrs. J. E. Cornies	W-3403 5344
Environmental Analyst	B. B. Benson	W-3403 5344
Special Projects Section	E. F. Anderson, Spvr	W-3403 2899

L PLANS REVIEWED — in years ending March 31

Year	Subdivision	Specific Development Plans		Design for Development	Official Plans Amendments Zoning By-Laws
		Severance	Other		
1974	1,053	838	157	.....	192
1975	936	1,779	277	.....	355
1976	1,324	2,149	687	5	601
1977	983	3,839	1,053	.....	818
1978	1,614	4,558	566	11	986

PLANNING PROJECTS — in years ending March 31

Year	Ministry Plans	Cottage Lots Plans	Other Ministries & Agencies Plans	Municipal Plans
1974	17	.....	39	29
1975	74	.....	78	123
1976	27	1,091	113	73
1977	19	1,063	96	69
1978	34	1,749	117	64

SPECIAL LAND USE PROJECTS — in years ending March 31

Year	Ministry Projects	Other Agencies Projects
1977	1	3

LANDS AND WATERS GROUP

ENGINEERING SERVICES BRANCH

Room W-5620, Main Office. Telephone (416) 965-1271.

Branch Director	S. B. Panting	W-5620A 1271
Audit and Design	R. M. Odell	W-5629 1271
Water Management	T. M. Kurtz, Spvr	W-5625A 1271
Shore Management	D. Strelchuk	W-5623A 1271
Private Dams, Diversions	W. J. McMullen	W-5625 1271
Roads Co-ordinator	G. E. Holman	W-5620 1271
Special Services	R. A. Weir	W-5623 1271

L HYDRAULIC STRUCTURES OPERATED — in years ending March 31

Year	Dams and Fishways	Docks	Navigation Aids	Total
1978	201	....	17	218

HYDRAULIC STRUCTURES MAINTAINED — in years ending March 31

Year	Dams and Fishways	Docks	Navigation Aids	Total
1978	302	122	20	444

LANDS AND WATERS GROUP

CONSERVATION AUTHORITIES BRANCH

Section 6, 5th Floor, Main Office. Telephone (416) 965-6285.

Branch Director	R. J. Burgar	Sect 6 6287
Secretary	Mrs. U. A. de Cordova ..	Sect 6 6285
Assistant Director, Policy Development	D. M. Wood	Sect 6 6285
Water Planning & Engineering	G. S. Sardesai, Head	Sect 6 6277
Watershed Planner	S. A. Mathewson	Sect 6 6275
Hydraulics Policy Specialist	L. J. Balogh	Sect 6 6277
Hydrology Specialist	J. Y. Ding	W-5618 6220
Cons, Rec & Community Relations	Mrs. S. Shaw, Head	Sect 6 6275
Assistant Director, Programming	J. S. Anderson	Sect 6 6285
Financial Services	R. F. McDougal, Head	Sect 6 7694
Conservation & Recreation	R. J. Dickie, Head	Sect 6 1573
Land Mgmt	R. B. Chang, Head	Sect 6 6295
Water Management and Programming	K. Nitta	Sect 6 6295
Hydraulics Specialist	W. C. Thompson	W-5602 6292
Hydrometeorologist		
Library	Miss A. Perrigo	W-5635 4481
Administrative Support Services	Mrs. D. Green, Spvr	Sect 6 6270
Youth Programs	Miss M. E. Gingerich	W-5618 1790

GRANTS TO CONSERVATION AUTHORITIES — in years ending March 31

Year	Adminis- tration	Conservation Areas	Niagara Escarpment	Lake Ontario Waterfront	Guelph Reservoir	Dam Operation	Water Control	Conserva- tion Services and Sundry Capital	Total
1973	\$ 2,424,768	\$ 2,790,100	\$ 548,792	\$ 656,311	\$ 1,815,510	\$ 232,774	\$ 10,704,795	\$ 11,494,112	\$ 17,360,540
1974	2,819,126	8,745,435	1,859,027	..... 5,095,996	284,221	11,494,112	826,484	..... 11,706,636	27,843,915
1975	3,662,779	5,633,247	1,319,789	5,095,996	264,813	592,866	28,276,126	414,369	31,399,736
1976	4,151,100	6,523,658	1,447,639	2,550,410	5,512,701	10,059,898	739,961	486,971	23,932,012
1977	4,793,147	4,424,426	378,706	1,527,474	702,121	10,900,904	18,263		

GRANTS TO CONSERVATION AUTHORITIES UNDER THE CONSERVATION AUTHORITIES ACT

Conservation Authorities in year ending March 31, 1978	Adminis- tration	Water and Related Land Mgmt	Conservation and Recreation Land Mgmt	Total
Ausable Bayfield	\$ 88,847.06	\$ 127,846.30	\$ 95,578.57	\$ 312,271.93
Cataraqui Region	83,091.79	397,014.55	67,967.03	548,073.37
Catfish Creek	20,473.55	8,104.91	15,756.73	44,335.19
Central Lake Ontario	105,274.00	394,427.89	135,320.04	635,021.93
Credit Valley	139,067.38	1,288,098.52	44,640.97	*2,411,728.18
Crowe Valley	27,473.57	573,944.68	4,856.15	606,274.39
Essex Region	63,762.09	264,589.54	109,637.71	437,989.34
Ganaraska Region	51,925.00	167,170.67	42,437.38	261,533.05
Grand River	597,347.95	2,106,368.44	602,334.40	3,306,050.79
Halton Region	225,808.35	804,274.20	169,330.65	1,199,413.20
Hamilton Region	215,780.25	403,921.60	524,199.33	1,143,901.18
Kettle Creek	42,264.64	88,775.94	80,220.41	211,260.99
Lakehead Region	78,346.81	194,145.40	19,354.93	291,847.14
Long Point Region	77,258.85	129,394.49	81,567.85	288,221.19
Lower Thames Valley	84,738.66	321,662.38	108,151.89	514,552.93
Lower Trent Region	49,026.35	176,295.62	41,115.23	266,437.20
Maitland Valley	85,881.26	202,474.15	73,375.91	361,731.32
Mattagami Region	46,081.52	257,285.34	138,387.43	441,754.29
Metro Toronto & Region ..	585,537.10	2,011,454.47	218,359.57	**4,371,070.38
Mississippi Valley	94,500.00	579,266.12	26,585.73	700,351.85
Moira River	47,577.74	998,221.54	29,485.23	1,075,284.51
Napanee Region	49,645.86	64,395.96	50,425.32	164,467.14
Niagara Peninsula	118,525.00	268,194.99	98,508.72	485,228.71
Nickel District	69,041.00	211,023.82	23,376.73	303,441.55
North Bay—Mattawa	30,918.00	9,669.83	4,348.64	44,936.47
North Grey Region	56,513.84	43,924.01	351,364.74	451,802.59
Nottawasaga Valley	54,907.96	162,881.77	34,677.27	252,467.00
Otonabee Region	91,907.08	165,534.59	57,584.71	315,026.38
Prince Edward Region ..	42,238.33	71,797.79	28,900.48	142,936.60
Raisin Region	38,420.76	22,080.71	59,556.30	120,057.77
Rideau Valley	113,967.00	586,918.71	35,879.54	736,765.25
Sauble Valley	34,398.07	14,310.18	66,920.00	115,628.25
Saugeen Valley	90,594.26	338,572.03	116,600.30	545,766.59
Sault Ste. Marie Region ..	32,124.00	797,559.74	19,177.97	848,861.71
South Lake Simcoe	79,913.10	487,760.26	42,716.52	610,389.88
South Nation River	21,318.15	80,606.15	424,398.84	526,323.14
St. Clair Region	81,805.13	950,691.80	169,151.86	1,201,648.79
Upper Thames River	167,762.59	942,949.05	77,730.74	1,188,442.38
TOTAL	3,984,064.05	16,713,608.14	4,289,981.81	27,483,294.55

*Includes grants of \$939,921.31 for Lake Ontario Waterfront.

**Includes grants of \$1,555,719.24 for Lake Ontario Waterfront.

The total of these grants is \$2,495,640.55.

**GRANTS TO CONSERVATION AUTHORITIES
UNDER THE CONSERVATION AUTHORITIES ACT —** in years ending March 31

Year	Adminis- tration	Water and Related Land Mgmt	Conservation and Recreation Land Mgmt	Lake Ontario Waterfront	Total
1978*	\$ 3,984,064	\$ 4,289,982	\$ 16,713,608	\$ 2,495,641	\$ 27,483,295

*A revised Policy, Procedure and Information Manual, which became effective in January, 1977, combined several of the capital programs reported separately in previous years.

AVIATION AND FIRE MANAGEMENT CENTRE

Box 310, Sault Ste. Marie, Ontario P6A 5L8.
Telephone (705) 942-1800. Telex 067-77212, 067-77134

Director	W. L. Sleeman	(705) 942-1800
Finance and Administration Supervisor ..	W. A. Sinclair	1800
Purchasing Officer	H. J. McMillan	1800
Fire Management Section	W. H. Forman, Spvr	1800
Provincial Fire Operations	J. D. Walker, Spvr	1800
Project Management	R. J. Drysdale, Spvr	1800
Fire Management Education Co-ordinator	R. B. Little	1800
Chief Pilot	W. K. Warner	1800
Maintenance Superintendent	R. P. Rear	1800
Production Control Supervisor	A. I. Elliott	1800
Quality Control Inspector	D. J. Moffatt	1800
Communications, Maple	J. Azevedo	(416) 832-2761
Flight Ops Officer, Malton Airbase	W. C. Clarke	(416) 248-3487

FOREST FIRE RECORD

Year	Damage	Private Property Damage	Crown	Acres Burned Private	Over Total	Number of Fires	Acres Per Fire
1917	\$ .....	\$ .....	.....	.....	384,164	1,110	346
1918	.....	.....	.....	.....	30,172	965	31
1919	.....	.....	.....	.....	922,161	1,780	518
1920	.....	.....	.....	.....	358,851	1,287	279
1921	.....	.....	.....	.....	749,534	1,269	591
1922	.....	.....	.....	.....	346,193	1,021	339
1923	.....	.....	.....	.....	2,120,148	1,343	1,579
1924	.....	.....	.....	.....	146,017	851	171
1925	.....	.....	.....	.....	189,543	1,149	165
1926	.....	65,888	22,486	88,374	1,110	80	
1927	.....	22,772	12,970	35,742	924	39	
1928	.....	96,436	3,947	100,383	536	187	
1929	.....	608,750	16,893	625,643	1,550	404	
1930	.....	357,531	354,278	711,809	1,402	508	
1931	.....	105,866	32,421	138,287	1,851	75	
1932	.....	626,555	52,466	679,021	2,073	328	
1933	.....	325,034	24,924	349,958	1,919	182	
1934	.....	160,348	38,285	198,633	1,568	127	
1935	.....	183,179	67,483	250,662	1,309	191	
1936	.....	1,153,876	110,557	1,264,433	2,264	558	
1937	.....	201,887	22,859	224,746	1,453	155	
1938	.....	96,168	42,077	138,245	1,292	107	
1939	.....	26,089	3,009	29,098	961	30	
1940	.....	100,990	20,624	121,614	1,014	120	
1941	.....	271,793	394,754	666,547	1,265	527	
1942	.....	77,709	36,007	113,716	1,224	93	
1943	.....	33,465	19,352	52,817	624	85	
1944	.....	73,228	95,663	168,891	1,137	149	
1945	.....	17,997	30,513	48,510	966	50	
1946	.....	44,656	32,113	76,769	1,739	44	
1947	.....	38,093	45,939	84,032	1,393	60	
1948	.....	854,778	162,611	1,017,389	2,036	500	
1949	.....	40,593	19,472	60,065	1,834	33	
1950	55,148	103,682	13,203	23,577	36,780	985	37
1951	389,447	56,389	96,662	4,581	101,243	904	112
1952	29,504	31,347	7,264	5,157	12,421	1,095	11
1953	393,874	81,778	44,519	14,290	58,809	1,520	39
1954	406,241	15,650	36,115	18,578	54,693	881	62
1955	3,591,680	184,940	370,948	25,475	396,423	2,252	176
1956	3,068,152	22,319	221,822	4,390	226,212	1,017	222
1957	463,059	113,751	24,250	22,401	46,651	1,671	28
1958	311,503	97,036	25,544	11,108	36,652	1,558	24
1959	22,041	20,757	2,580	2,701	5,281	1,029	5
1960	438,094	56,442	29,190	2,196	31,386	956	33

FOREST FIRE RECORD

Year	Damage	Private Property Damage	Number Crown	Acres Burned Private	Over Total	Number of Fires	Acres Per Fire
1961	\$31,989,802	\$152,639	1,180,900	3,828	1,184,728	1,305	908
1962	74,748	99,165	7,583	6,221	13,804	1,521	9
1963	706,888	39,932	40,692	15,446	56,138	1,885	30
1964	500,296	19,792	22,463	5,661	28,124	1,829	15
1965	386,850	254,105	14,995	4,909	19,904	1,218	16
1966	71,521	49,457	8,453	5,962	14,415	1,921	8
1967	1,353,919	87,638	58,733	4,769	63,502	1,465	43
1968	4,174	54,146	2,665	6,796	9,461	1,219	8
1969	134,756	4,623	4,481	1,653	6,134	901	7
1970	1,323,041	28,815	.....	.....	56,160	1,239	45
1971	462,064	75,875	.....	.....	36,199	1,790	20
1972	1,081,876	47,446	.....	.....	79,145	1,604	49
1973	11,944	121,900	5,973	2,940	8,913	1,111	8
1974	12,063,428	239,384	1,291,473	3,327	1,294,800	1,625	797
1975	683,726	340,414	27,740	13,911	41,651	3,146	13
1976	26,839,738	930,514	1,325,791	18,726	1,344,517	3,985	337
1977	11,190,900	252,565	1,017,460	11,279	1,028,739	2,049	502

1977 FOREST FIRES

District	Acres Burned Over	Number of Fires	Acres Per Fire	Months	Acres Burned Over	Number of Fires	Acres Per Fire
Dryden	18.4	26	.7	March	104.7	17	6.2
Fort Frances ..	4,055.7	43	94.3	April	1,772.5	327	5.4
Ignace	42.4	21	2.0	May	573,376.6	913	628.0
Kenora	1,076.5	69	15.6	June	378,747.2	287	1,319.7
Red Lake	362,966.4	76	4,775.9	July	71,145.4	371	191.8
Sioux Lookout	341,528.0	47	7,266.6	August	46.2	90	.5
Atikokan	147.5	14	10.5	September	6.1	18	.3
Geraldton	181,625.9	44	4,127.9	October	3,539.8	25	141.6
Nipigon	16.1	19	.8	November .....	.8	1	.8
Terrace Bay	426.1	21	20.3	Total	1,028,739.3	2,049	502.1
Thunder Bay ..	1,754.7	94	18.7				
White River	10.5	12	.9				
Chapleau	8,451.8	46	183.7				
Cochrane	6,522.5	24	271.8				
Gogama	72.1	33	2.2				
Hearst	861.5	28	30.8				
Kapuskasing	1,748.8	31	56.4				
Kirkland Lake ..	11,258.0	67	168.0				
Moosonee	71,823.0	11	6,529.4				
Timmins	187.1	27	6.9				
Blind River	225.1	71	3.2				
Espanola	73.5	31	2.4				
North Bay	787.8	121	6.5				
Sault Ste. Marie	142.9	25	5.7				
Sudbury	1,862.7	253	7.4				
Temagami	27,628.2	53	521.3				
Wawa	131.8	34	3.9				
Algonquin Park	1,422.4	92	15.5				
Bancroft	127.6	64	2.0				
Bracebridge	171.5	93	1.8				
Minden	116.4	76	1.5				
Parry Sound ..	109.8	73	1.5				
Pembroke	685.3	146	4.7				
Lanark	88.1	27	3.3				
Tweed	477.9	96	5.0				
Huronia	14.2	17	.8				
Lindsay	78.8	20	3.9				
Owen Sound ..	2.3	4	.6				
Total	1,028,739.3	2,049	502.1				

DETECTION OF FOREST FIRES

Agencies of Detection	1973	1974	1975	1976	1977
Towers	12	8	6	5	2
Ministry Aircraft	176	406	1,003	1,294	425
Total Organized Dtn	188	414	1,009	1,299	427
Public	852	1,093	1,876	1,948	1,434
Other Aircraft	71	118	261	738	188
Total Random Dtn	923	1,211	2,137	2,686	1,622
Total Fires	1,111	1,625	3,146	3,985	2,049
% age, Organized Dtn	17	25	32	33	21

SIZES OF FOREST FIRES

Area Burned Over	1973	1974	1975	1976	1977
Up to 1/4 .....Acres	523	711	1,426	1,957	811
Over 1/4 to 10 .....Acres	534	713	1,444	1,625	1,006
Over 10 to 100 .....Acres	43	112	222	224	157
Over 100 to 500 .....Acres	6	29	39	78	29
Over 500 .....Acres	5	60	15	101	46
Total Fires	1,111	1,625	3,146	3,985	2,049

PROSECUTIONS

Actions re Forest Fires	1973	1974	1975	1976	1977
Prosecutions	32	68	67	103	112
Convictions	29	56	57	81	103

CAUSES OF FOREST FIRES — I

GENERAL CAUSES	1973	1974	1975	1976	1977
Recreation	357	412	966	816	530
Resident	164	223	281	251	280
Incendiary	25	19	43	55	55
Railways	149	158	288	359	257
Industry (Forest)	13	17	38	33	18
Industry (Other)	30	22	54	32	32
Miscellaneous (Known)	165	177	353	281	310
Unknown	35	51	80	72	40
Lightning	173	546	1,043	2,086	527
Total Fires	1,111	1,625	3,146	3,985	2,049

CAUSES OF FOREST FIRES — II

SOURCE OF IGNITION	1973	1974	1975	1976	1977
Smoking Materials	242	264	532	410	380
Camp Fires	168	184	484	403	222
Matches	88	120	234	240	195
Fireworks	2	2	3	1	2
Explosives	1	1	3	1	2
Fusee	7	19	10	10	8
Prescribed Burning	0	3	1	1	—
Dump Ashes, Coals	3	7	13	9	5
Burning Grass	58	75	100	61	50
Burning Brush	28	30	49	59	59
Burning Rubbish	32	50	61	44	40
Burning Garbage Dump	24	29	48	68	40
Burning Bulldozed Pile	0	3	3	9	4
Burning Sawdust Pile	3	1	6	2	3
Burning Ties	4	6	8	19	12
Burning Right of Way	3	5	11	5	18
Locomotive, Diesel	26	7	66	56	38
Locomotive Steam	0	.....	1	.....	—
Brake Shoe	87	90	162	192	141
Hot Box	7	3	6	8	3
Power Saw	1	4	5	11	5
Mechanical Equipment	17	25	35	37	43
Power Line (Short)	18	18	29	23	65
Sparks from Chimney	1	3	6	4	4
Sparks from Burner	2	5	1	—	1
Structural Fires	12	11	22	16	21
Miscellaneous (Known)	18	22	50	59	49
Unknown	86	93	154	152	112
Lightning	173	546	1,043	2,085	527
Total Fires	1,111	1,625	3,146	3,985	2,049

CAUSES OF FOREST FIRES — III

RESPONSIBLE GROUPS	1973	1974	1975	1976	1977
RECREATION					
Fishermen	137	125	271	254	141
Hunters	28	13	75	73	9
Canoeists	14	20	68	45	29
Campers	40	52	171	114	77
Picnickers	9	13	18	21	15
Berry Pickers	58	88	172	147	62
TRAVELLERS					
Car Passengers	59	67	159	87	126
Hikers	21	29	66	51	66
Train Passengers	1	1	4	5	—
Guided Parties	0	1	2	—	1
RESIDENTS					
Farmers	14	18	37	30	31
Rural Residents	105	142	156	136	137
Urban Residents	11	9	14	13	14
Private Cottagers	24	39	58	48	70
Resort Owners	5	1	6	3	3
Indians (on Reserves)	4	10	14	47	21
VOCATION					
Trappers	1	.....	.....	1	1
Prospectors	3	2	3	1	1
Timber Cruisers	0	.....	.....	1	1
Survey Parties	0	.....	1	2	—
Military	0	1	.....	1	2
EMPLOYEE OFF—					
Woods Industry	12	17	30	26	19
Mining	8	3	3	—	5
Pipeline	1	.....	.....	—	—
Hydro	7	4	11	11	6
Telephone	0	.....	.....	—	1
Highway or Road	1	2	5	6	2
R.R. Section Crew	6	15	15	34	37
R.R. Train Crew	135	127	241	273	31
R.R. Work Crew	7	9	11	31	185
Other Industry	5	5	25	9	12
Natural Resources	2	8	10	13	10
Other Prov Government	1	.....	.....	1	1
Federal Government	1	1	.....	—	—
Municipality	3	2	4	2	7
MISCELLANEOUS					
Children	100	111	187	172	172
Youth Camps	1	.....	5	—	3
Miscellaneous (Known)	25	35	71	64	94
Unknown	84	108	190	177	130
Total Man-Caused Fires	938	1,078	2,103	1,899	1,522
Percentage of All Fires	84	66	67	48	74

AIR SERVICE SUMMARY — I — Hours Flown in years ending March 31

Year	Fire Ranging	Timber	Fish and Wildlife	Surveys	Lands	Parks
1974	4,355	70	4,057	440	778	777
1975	5,840	59	3,384	412	631	850
1976	5,204	1,354	3,901	195	709	884
1977	6,611	994	3,418	181	628	571
1978	3,149	1,127	3,775	287	1,088	538
1924-78						
Total	228,953	32,549	97,347	2,221	12,475	11,275

Year	Research	Inter- Ministry	Photo	Mercy Flights	Miscellaneous	Total
1974	115	1,930	.....	81	1,430	14,033.6
1975	.....	1,162	.....	41	3,076	15,455.2
1976	77	1,689	490	66	2,404	16,972.7
1977	506	1,400	463	46	3,003	17,820.8
1978	482	3,123	479	15	1,953	16,015.0
1924-78						
Total	8,598	24,464	4,497	1,749	159,422	583,549.5

AIR SERVICE SUMMARY — II — in years ending March 31

Year	Mercy Flights	Passengers Carried	Flight Crew	Loads Carried Tons	Pounds
1974	41	31,900	22,346	8,023	1,922
1975	19	26,558	17,156	12,686	1,531
1976	27	30,497	6,834	10,765	515
1977	22	29,756	7,327	21,965	1,732
1978	10	28,639	7,731	863	13
1924-78					
Total	512	1,062,344	365,459	226,518	3,695

FINANCE AND ADMINISTRATION GROUP

Room W-6314, Main Office. Telephone (416) 965-6148.

Executive Co-ordinator	G. D. Spry	W-6314 6148
Secretary	Mrs. C. Caddell	W-5314 6147
Budget and Financial Analysis Unit ..	D. M. Power	W-5405 5539
	M. J. Churchill	W-5404 5539
	J. Rawston	W-5404 5539
	P. Chen	W-5403 5539
Systems Co-ordinator	G. M. Longley	W-2506 5674
Women's Co-ordinator	Mrs. E. Rhodes	W-1512 5663

FINANCIAL SERVICES BRANCH

Room W-4324, Main Office. Telephone (416) 965-2761.

Branch Director	A. C. Goddard	W-4324 2761
Finance and Cost Analyst	E. E. Bayer	W-4331 2761
Financial Methods Section	C. K. Moulson	W-4406 1218
Chief Accountant	W. A. Brown	W-4328 2761
Accounts Payable Section	J. T. Tunnicliff	W-4319 2764
Claims and Special Assignments ..	F. G. DaSilva	W-4331 2761
Expenditure Control	R. Kerr	W-4321 1895
Financial Reporting Section	(Vacant)	W-4322 1895
IPPEB Section	K. D. Plouffe	W-4407 2766
Chief Officer, Revenue	I. A. Nott	W-4323 2761
Fish and Wildlife Licences Section	F. J. Bailes	W-4307 2814
Mining Revenue Section	K. H. Stahl	W-4404 1314
Revenue Accts & Security Deposits Section	F. J. Morrell	W-4402 2710
Revenue Receiving Section	I. W. Dewell	W-4335 4451

REVENUE AND EXPENDITURES — in years ending March 31

Year	Total General Revenue	Total General Expenditure
1974	\$ 89,660,894	\$ 158,627,096
1975	201,149,345	190,475,669
1976	128,404,521	207,981,416
1977	109,345,882	239,442,268
1978	99,733,072	242,207,223

CONSERVATION AUTHORITIES BRANCH REVENUE — in years ending March 31

Year	Reservoir & Rural Water Supply	Flood Control & Water Conservation Projects	Recovery of Prior Year's Expenditure	Total
1974	\$ 330,540	\$ 893,799	\$ 368,334	\$ 1,592,673
1975	501,690	375,339	488,156	1,365,185
1976	500,000	59,784	29,312	589,096
1977	319,681	5,627	55,900	381,208
1978	455,192	644,985	12,629	1,112,806

OTHER CASH RECEIPTS — in years ending March 31

Year	Flying Fees	Fire Costs Recovered	Nursery Tree Sales	House Rentals	Sale of Buildings	Sale of Van and Eqpt	Confiscated Articles
1974	\$ 53,993	\$ 125,277	\$ 243,857	\$ 271,103	\$ 21,802	\$ 366,313	\$ 25,699
1975	53,010	80,305	200,566	347,971	85,488	9,861	41,489
1976	4,590	295,449	182,157	394,240	25,757	146,579	32,742
1977	2,034	298,653	174,538	352,369	24,933	296,483	60,173
1978	2,377	835,720	213,095	457,659	16,177	875,868	84,033

Year	Sale of Maps, Publications etc.	Agreements Outside Agencies	Federal	Water Power	Non-recurring Items and Miscellaneous	Total
1974	\$ 1,254,868	\$ 13,341	\$ 14,549	\$	\$ 25,154	\$ 2,415,955
1975	1,440,079	7,650	366,896	.....	278,067	2,911,382
1976	1,530,779	19,778	127,598	12,747,346	242,006	15,749,021
1977	1,626,975	26,239	266,200	12,988,363	72,831	16,189,791
1978	1,817,587	27,127	315,935	13,715,920	679,140	19,040,638

TIMBER REVENUE — in years ending March 31

Year	* Stumpage Charges	Forest Protection Charges	Cash Deposits and Refunds	Agreement Forest	Federal Agreement	Miscellaneous	Total
1974	\$ 14,825,276	\$ 2,015,895	\$ (29,454)	\$ 196,070	\$ 145,562	\$ 21,883	\$ 17,175,232
1975	20,014,603	1,970,833	(14,609)	215,046	695,063	25,517	22,906,453
1976	23,835,666	2,597,098	C.....	123,309	314,113	55,208	26,925,394
1977	25,923,527	1,883,792	.....	206,150	406,922	93,673	28,514,064
1978	30,776,425	2,232,462	.....	253,492	982,418	76,098	34,320,895

MINING REVENUE — in years ending March 31

Year	Licences and Permits	Mining Claims	Sale of Mining Lands	Rentals	Royalties	Taxes	Forfeitures	Laboratory Fees	Rec. of Prior Years Expenditure	Total
1974	\$ 77,530	\$ 334,526	\$ 1,938	\$ 858,567	\$ 744,462	\$ 46,962,605	\$ 6,710	\$ 107,716	\$ 106,554	\$ 49,200,608
1975	74,551	343,316	1,691	990,396	763,939	152,802,601	4,900	122,902	96,215	155,200,511
1976	88,024	347,669	1,517	750,291	836,305	63,081,453	4,350	119,866	180,242	65,409,717
1977	75,420	334,256	32,015	656,009	819,967	41,652,820	3,470	98,161	74,595	43,746,713
1978	81,295	280,417	17,870	802,480	1,065,821	22,919,376	4,210	70,698	1,074	25,243,241

LANDS REVENUE — in years ending March 31

Year	Crown Land Sales	Crown Land Rentals	Park Rentals and Fees +	Pits-Quarries Licences	Land Acquisition	Land Use Permits	Miscellaneous	Total
1974	\$ 1,334,071	\$ 369,970	\$ 25,488	\$ 58,850	\$ 14,415	\$ 268,625	\$ 12,301	\$ 2,083,720
1975	161,522	447,042	31,170	73,625	54,548	296,733	5,381	1,070,021
1976	223,013	546,844	48,597	94,900	39,163	348,108	137,918	1,438,543
1977	966,881	618,509	47,604	89,675	159,515	398,755	34,978	2,315,917
1978	158,100	686,992	44,931	89,300	18,987	401,880	2,370	1,402,560

* Crown Dues to March 31, 1976. + Formerly Park Rentals. C..... Refunds reported as charges, April 1, 1975.

PROVINCIAL PARKS REVENUE — in years ending March 31

Year	Permits	Campsite Permits	Concessions Rental	Licences and Permits Historical Sites	St. Lawrence Parks	Federal Assistance	Frost Centre	Miscellaneous	Total
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1974 759,614	3,605,009	227,827	123,498	1,445,316	68,882	173,450	49,360	45,453	6,210,624
1975 693,184	3,743,651	242,660	154,060	1,495,828	1,521,710	44,359	244,010	18,273	6,617,168
1976 726,356	3,997,858	299,644	C&R .....	.....	.....	.....	.....	.....	6,852,210
1977 671,464	3,835,840	317,043	.....	1,398,060	241,060	257,117	22,551	6,743,135	7,049,831
1978 729,408	3,753,880	350,837	.....	1,432,275	421,208	292,358	69,865	.....	7,049,831

FISH AND WILDLIFE REVENUE — in years ending March 31

Year	Non-Resident Angling	Resident Angling	Other Fishing	Commercial Fishing	Non-Resident Hunting	Resident Bear	Resident Deer	Resident Moose	Resident Groundhog
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1974 4,494,915	5,394	55,962	87,824	2,752,935	6,790	797,826	1,134,734	.....	67,286
1975 4,680,140	.....	69,308	91,083	2,582,421	7,298	806,438	1,189,524	71,151	71,151
1976 5,599,835	.....	94,704	89,679	2,004,314	8,023	827,601	1,170,402	75,331	75,331
1977 5,473,577	.....	102,250	89,817	2,046,136	9,541	787,631	1,182,597	81,743	81,743
1978 5,603,400	.....	93,838	95,125	1,766,613	9,466	863,246	1,056,029	59,800	75,678
Year	Res (Gun) Hunting	Dog	Trappers	Fur Dealers	Royalty Game	Hunter Exam Fee	Prov Park Hunting	Miscellaneous	Total
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1974 970,532	17,979	45,900	2,230	247,682	95,991	31,384	166,718	10,982,082	10,982,082
1975 947,986	16,708	45,817	2,800	310,968	106,614	32,859	117,510	11,078,625	11,078,625
1976 994,772	16,238	45,705	2,990	284,203	113,247	34,295	79,201	11,440,540	11,440,540
1977 977,262	16,141	51,910	3,565	432,988	98,301	36,843	64,752	11,455,054	11,455,054
1978 997,357	15,681	52,969	5,965	666,789	105,339	59,800	95,806	11,563,101	11,563,101

C&R Reported by Ministry of Culture and Recreation from April 1, 1975.

FINANCE AND ADMINISTRATION GROUP

INTERNAL AUDIT SERVICES BRANCH

Room W-4402, Main Office.	Telephone (416) 965-4087
Branch Director	A. A. Ward W-4402 4087
Main Office Audit Manager	D. L. Lay W-4402 4088
Northeastern Audit Section 875 Queen Street East Sault Ste. Marie, P6A 2B3 Audit Manager	I. C. Livingstone (705) 942-1418 (IC 842)
Northwestern Audit Section Box 5000 Thunder Bay, P7C 5G6 Audit Manager	(vacant) (807) 475-1211 (IC 844)
Southern Audit Section c/o District Office Maple, L0J 1E0 Audit Manager	D. A. Dooling (416) 832-2761 Ext 281

FINANCE AND ADMINISTRATION GROUP

INFORMATION SERVICES BRANCH

Room W-5305, Main Office. Telephone (416) 965-2756.

Branch Director	F. Moritsugu	W-5314A 3315
Information and Liaison Section	R. J. Keir, Spvr	W-5305 2756
News and Media Co-ordinator	G. E. Mulholland	W-5305 2756
Field Liaison Officer	(vacant) .....	.....
Audio Visual and Films Section	L. P. Bondy, Spvr	W-5319 2758
Photography	W. G. Lanning, Mgr ..	W-5319 2758
Exhibits and Administration	Mrs. E. H. Brown, Spvr	W-5305 1281
Exhibits, CNE Grounds	D. Hendry .....	..... 2729
Wildlife Compound, Minesing	J. H. Scott, Curator ..	(705) 728-4382
Libraries		
Resources Library	Mrs. S. Louet	W-4508 6319
Mines Library, 77 Grenville St.	Mrs. N. Thurston	812 1285
Research Library, Maple	(vacant)	(416) 832-2761-293

FINANCE AND ADMINISTRATION GROUP

PERSONNEL SERVICES BRANCH

Room W-4501, Main Office. Telephone (416) 965-3825.

Branch Director	H. B. Farrant	W-4501 3828
Manpower Section	M. K. Szulc	W-4635 2707
Manpower Planning & Development Unit	C. H. Bennett	W-4604 2707
Staffing	C. Peterson	W-4604 2707
Unclassified Staff & Comp Control	Miss N. Miller	W-4603 2707
Junior Ranger and Youth Programs	Mrs. R. Kelly	W-4603 2707
M. T. Campbell	E. Yhap	W-4635 2707
Compensation Section	J. A. Temple	W-4506 6091
Personnel Records	R. Fletcher	W-4506 6091
Classifications and Records	R. McIlveen	W-4506 6091
Accounting and Benefits	Mrs. C. Mahon	W-4501 3961
Employee Relations	Miss L. Flann	W-4501 3961
Safety Program Development Section	Miss N. Davidson	W-4501 3961
	A. Jackel	W-4501 3825
	A. J. Bennett	W-4501 3825
	J. Hastings	W-4501 2735

STAFF SUMMARY

Staff at March 31	1974	1975	1976	1977	1978
Regular Staff	3,453	3,305	3,793	3,603	3,614
Probationary Staff	522	779	256	302	250
Unclassified Staff	1,192	1,910	2,309	2,103	2,051
Total Staff	5,167	5,994	6,358	6,008	5,915
Main Office Staff	1,551	1,285	1,258	1,172	906
Field Office Staff	3,616	4,709	2,766	2,733	2,958
New Employees	402	386	356	234	250
Deceased	9	11	15	18	9
Superannuated	71	80	74	84	95
Transferred	30	21	58	112	49
Resigned	197	206	134	131	91
Dismissed	3	1	0	1	1
Miscellaneous	12	25	0	9	0
Total Separations	322	344	281	355	246
Biologists	98	115	111	114	123
Economists	8	8	9	8	7
Engineers	22	24	35	31	12
Foresters	242	240	259	289	288
Geologists	53	58	56	56	66
Mining Engineers	30	32	31	35	0
Park Planners	16	23	26	24	42
Scientists	48	50	59	49	55
Miscellaneous	44	42	43	73	54
Professional Staff	561	592	629	679	649
Air Engineers	39	40	38	37	37
Cartographers	28	28	25	20	32
Communications Techs	24	34	33	34	24
Community Planners .....	.....	.....	.....	.....	31
Construction Supts.	10	11	11	10	8
Draftsmen	63	77	70	50	41
Geologist Assistants	13	14	13	14	14
Insp. Mining Claims	10	6	6	6	6
Laboratory Techs.	32	34	28	22	20
Mechanics	59	54	52	54	55
Mining Recorders	9	31	30	6	5
Pilots	41	37	36	38	38
Resource Managers	24	25	21	22	24
Resource Techs.	1,445	1,512	1,521	1,507	1,512
Safety Instruction Off	14	13	14	10	12
Scalers, licensed	857	876	872	1,333	1,165
Junior Rangers	1,493	1,618	1,618	1,606	1,918

FINANCE AND ADMINISTRATION GROUP

ADMINISTRATIVE SERVICES BRANCH

Room W-5513, Main Office. Telephone (416) 965-2711.

Branch Director	J. A. Queen	W-5513	.... 2711
Services Section	F. W. Love, Mgr.	W-5501-1	.... 4600
Office Management	H. L. Bembridge, Spvr	W-5334	.... 5134
Public Service Centre	Miss M. I. Leuty, Spvr	W-1622	.... 6511
Data Processing	R. Khan, Spvr	W-5402	.... 0116
General Enquiry (Nat. Resources) Whitney Block Information Booth			2000
Supply Section	R. Armstrong, Mgr ..	W-5512	.... 3317
Purchasing	J. May, Spvr	W-5501	.... 1601
Central Supply Warehouse 733 King Street West	R. M. Toms, Spvr		1286
Records & Forms Management Section ..	A. J. Lesser, Mgr	W-5401	.... 3822
Accommodations Section	G. Laivenieks, Mgr	W-5416	.... 4645

VEHICLES AND EQUIPMENT IN SERVICE — in year ending March 31, 1978

Type	Fixed Complement	*Number in Operation
Sedans	202	229
Station Wagons	80	88
Pick-Ups	665	751
Pick-Ups 4 x 4	101	109
Crew Cabs	74	80
 Crew Carriers	23	30
Crew Cabs 4 x 4	42	44
Crew Carriers 4 x 4	73	74
Passenger Vans	81	86
Cargo Vans	20	23
 10,000 GVW Trucks	85	89
10,000 GVW (Garbage Packers)	9	9
15,000 GVW Trucks	11	11
19,000 GVW Trucks	63	67
19,000 GVW Trucks 4 x 4	2	2
 24,000 GVW Trucks	67	68
27,000 GVW Trucks	35	37
34,000 GVW Trucks	3	3
34,000 GVW (Garbage Packers)	3	3
34,000 GVW Tractors	1	1
 54,000 GVW Tandem Trucks	2	2
10,000 GVW Trucks c/w 30' aerial bucket		
24,000 GVW Trucks c/w 50' aerial bucket		
50,000 GVW Equipment Float	1	1
Passenger Buses	12	13
 TOTAL	1,655	1,820
 Snowmobiles	528	567
Motorcycles	34	34
Tractors & ATV	320	325
Trailers (boat and equipment)	873	873
Trailers (refrigerated semi-trailers)	23	23

*Number includes replacements and vehicles to be disposed of.

FINANCE AND ADMINISTRATION GROUP

LEGAL SERVICES BRANCH *

Room W-6410, Main Office. Telephone (416) 965-2748.

Director	M. S. Smith	W-6410 2748
Solicitors	W. E. D. Peters	W-6401 2748
	W. J. Obelyncki	W-6402 2748
	L. A. Low	W-6409 2749
	D. G. Searle	W-6411 2749
	B. G. Jones	W-6412 2749
	T. N. Trow	W-6414 2749

*Legal Services Branch was transferred to the Attorney General on April 1, 1973, and seconded to the Minister of Natural Resources on the same date.

LEGISLATION

The Acts administered by the Ministry are as follows.

LANDS AND WATERS GROUP

THE BEDS OF NAVIGABLE WATERS ACT (sometimes referred to as the "Cochrane Act") is declaratory legislation relating to title in the beds of navigable waters. It followed the decision in the 1911 case of Keewatin Power versus The Town of Kenora. By the Act, the beds are deemed not to have passed to the grantee of bordering Crown land in the absence of an express grant.

THE ONTARIO GEOGRAPHIC NAMES BOARD ACT provides for the establishment of a Geographic Names Board for Ontario having the duty to gather information respecting the names of places and geographical features, make recommendations thereon, collaborate with the Canadian Permanent Committee on Geographic Names, and provide information to government departments, etc. The Minister may approve a recommended name and thereupon it shall be used by all government departments and agencies in the preparation of maps and other publications.

THE ONTARIO HARBOURS AGREEMENT ACT, 1962-3, confirms on behalf of Ontario the agreement between Ontario and Canada establishing the harbours which were public harbours at Confederation, providing that mines and minerals therein are administered by Ontario and confirming grants and quit claims listed therein. The federal harbours are Amherstburg, Belleville, Brockville, Chatham, Collingwood, Fort William, Gananoque, Goderich, Kincardine, Kingston, Kingsville, Leamington, Oshawa, Owen Sound, Penetanguishene, Port Arthur, Port Burwell, Port Hope, Port Stanley, Prescott, Rondeau Bay, Sarnia, Sault Ste. Marie, Southampton, Toronto, Whitby and Windsor.

THE PUBLIC LANDS ACT provides for: (1) An Advisory Committee to advise on matters referred by the Minister concerning renewable, natural resources; (2) A Public Agricultural Lands Committee to recommend on agricultural lands and their settlement, replacing the regulations on this subject; (3) The deposition of Crown land for a variety of purposes by sale, lease or licence, and by auction or tender; (4) The management of Crown land by the Ministry by zoning for land use, setting apart for public use, research etc., and through agreements with municipalities on beaches and water lots; (5) The administration of roads on Crown lands including the designation of public forest roads and agreements with occupiers of private forest roads respecting the use by the public of private forest roads; (6) The administration and control of the construction and maintenance of dams; (7) The granting of water powers and privileges.

THE SURVEYORS ACT deals with the Association of Ontario Land Surveyors and the rules governing membership and conduct. The Minister or his appointee and the Surveyor-General are members of the Council of Management.

THE SURVEYS ACT defines the system of surveys and the rules for surveyors. The Minister orders surveys made on his volition or upon application to settle disputes or lost lines, etc.; after hearing evidence, he confirms the surveys, with or without amendment. His decision is subject to appeal to a judge of the Supreme Court.

THE NORTH GEORGIAN BAY RECREATIONAL RESERVE ACT, 1962-3 establishes the North Georgian Bay Recreational Reserve and provides for the planning and development thereof and the appointment of a committee to advise the Minister thereon.

THE MINING ACT with respect to: the administration of public lands for mining purposes; the issuing of licences relating to exploration and drilling for, and the production of, minerals and oil and natural gas; the staking and recording of mining claims; and the rights of licensees and lessees under the Act. An acreage tax is levied under this Act. (See under Mineral Resources Group).

THE BEACH PROTECTION ACT prohibits the removal of sand from the bed, bank, beach, shore or waters of any lake, river or stream in Ontario except under the authority of a licence issued under the Act. Licensees may be required to pay a fixed sum per yard of sand removed from property of the Crown.

THE CANADA COMPANY'S LAND ACT, 1922, empowers the Crown to sell and convey to purchasers of lands from the Canada Company the mineral rights in the lands.

THE LAKES AND RIVERS IMPROVEMENT ACT deals with; the construction, repair and use of dams; timber driving; and timber slide companies and tolls. The Minister is charged with the responsibility of settling disputes between conflicting users under certain circumstances. An officer may be appointed to regulate the use of waters or works.

THE CONSERVATION AUTHORITIES ACT provides for the establishment of conservation authorities for the purpose of establishing and undertaking in the area over which they are given jurisdiction, a program designed to further the conservation, restoration, development and management of natural resources other than gas, oil, coal and minerals.

FOREST RESOURCES GROUP

THE CROWN TIMBER ACT provides for the granting of licences by the Minister to cut Crown Timber on the licensed area when tenders are called, or in a salvage operation, or where the stumpage charges are less than \$2,000.00 or by way of short renewals; and by the Minister, with the approval of the Lieutenant-Governor in Council, in other cases.

In contrast to licensed area, Crown Management Units may be established and agreements entered into for the supply of Crown timber. Under this arrangement, the party to the agreement does not have exclusive rights in a specific area until a license is granted to him to fill his requirements for an operating season.

Basic Crown dues, forest protection charges and management charges are fixed by the regulations.

Other subjects dealt with are: forest management plans and practices; examination of scalers and licensing of scalers; licensing of mills; penalties for wasteful practices, unauthorized cutting, removal of timber before scaling, and other violations; and protection of the Crown's interest through seizure, statutory lien for Crown charges, etc.

THE FORESTRY ACT. Under this Act: (1) The Minister enters into agreements with landowners such as municipalities, conservation authorities and the National Capital Commission (Ottawa) to manager forest lands; (2) Ministry free nurseries are established and nursery stock distributed; (3) Private forest reserves are set up on private lands with the consent of the owner.

THE SETTLERS' PULPWOOD PROTECTION ACT provides for the regulation of the sale and of the price of pulpwood cut from settlers' land.

THE SPRUCE PULPWOOD EXPORTATION ACT provides for the exploration (under the authority of an Order-in-Council) of spruce pulpwood from lands granted under special Acts which prohibited such export.

THE TREES ACT provides that, with the Minister's approval, municipalities may pass by-laws restricting and regulating the destruction of trees and appoint enforcement officers. Generally, by by-law, municipalities may acquire land for forestry purposes and enter into agreements for the management of such lands and related matters.

THE WOODLANDS IMPROVEMENT ACT provides for the Minister to enter into agreements with owners of lands suitable for forestry purposes and situate in a private forest management area for the planting of nursery stock or stand improvement.

THE WOODMEN'S EMPLOYMENT ACT authorizes the appointment of inspectors and the making of regulations respecting conditions in lumber camps.

THE WOODMEN'S LIEN FOR WAGES ACT provides a lien and a procedure to enforce such lien for persons performing labour on timber.

THE ALGONQUIN FORESTRY AUTHORITY ACT, 1974, establishes a corporation known as The Algonquin Forestry Authority to harvest Crown timber in Algonquin Provincial Park and public lands adjacent to the park, to sell the logs, and also to carry out such forestry, land management and other programs and projects as the Minister of Natural Resources authorizes.

THE FOREST TREE PEST CONTROL ACT provides for the control of outbreaks of forest tree insects and diseases on private lands.

MINERAL RESOURCES GROUP

THE MINING ACT with respect to the regulation of mining operations conducted within Ontario except under Part IX. (Also see under Lands and Waters Group.)

THE PITS AND QUARRIES CONTROL ACT, 1971, provides for the regulation of pit and quarry operations in designated parts of Ontario. Operations in designated areas must be licensed under the Act and are subject to periodic review to assure compliance with the provisions of the Act, the regulations and site plan.

THE PETROLEUM RESOURCES ACT, 1971, sets forth licensing requirements for all aspects of exploration, drilling and production and provides for the making of regulations respecting oil and gas conservation and the safe operation of drilling and production facilities.

THE MINING TAX ACT, 1972, imposes a real property tax on mines. For the purpose of levying such tax the mine is assessed on the output of the mine at the pit's mouth determined in accordance with the provisions of the Act.

THE INDUSTRIAL AND MINING LANDS COMPENSATION ACT provides for agreements between the owner or operator of a mine and the owner or lessee of any land for payment of compensation for any damage or injury resulting or likely to result to the land or to its use and enjoyment from the operation of the mine.

THE GAS AND OIL LEASES ACT sets out the procedure whereby a lessor under a gas or oil lease may, upon default by the lessee under the terms of the lease, obtain an order declaring the lease void.

OUTDOOR RECREATION GROUP

THE ENDANGERED SPECIES ACT, 1971, provides for the conservation, protection, restoration and propagation of species of flora and fauna of the Province of Ontario that are threatened with extinction.

THE GAME AND FISH ACT deals with the management of wildlife resources; game animals; game birds (upland); fur-bearing animals; frogs; and sale and rearing of game fish. The Act relates to: — open seasons for hunting and trapping; bag limits; Crown game preserves; offences and enforcement; the licensing of hunters, trappers, guides, persons operating game bird hunting preserves, and persons selling game fish for stocking and human consumption; the regulating of dogs used in hunting, aircraft transporting hunters, and conduct of hunters (hunter safety); and farmer-hunter relations. The Game and Fish Hearing Board was established under the Act on November 15, 1973.

THE FISH INSPECTION ACT is complementary to the Federal Act.

THE FISHERIES ACT (CANADA). Ontario Fishery Regulations are made under this Act. They relate to open seasons for angling and commercial fishing and the licences required. The form of licences and the fees are a provincial matter and are prescribed under The Game and Fish Act.

THE FISHERIES LOAN ACT provides for loans to persons carrying on the business of commercial fishing or any other business dependent in whole or in part on the taking of fish from waters in which such taking has been prohibited by reason of the contamination of fish resulting from pollution of the water. Provision is made for federal-provincial agreements respecting the sharing of such loans.

THE FRESHWATER FISH MARKETING ACT (ONTARIO) complements the Freshwater Fish Marketing Act (Canada). Through these Acts and the federal-provincial agreement, the Freshwater Fish Marketing Corporation established under the Federal Act is the sole purchaser of commercial fish, as defined in the Federal Act, taken in that part of Ontario designated in the regulations, i.e., that part of Ontario westerly of longitude 86° except the Territorial District of Rainy River but including that part of Lake of the Woods in the Territorial District of Rainy River. Sales to and purchases by persons for their own consumption or for consumption by persons or animals in the course of the purchaser's business are excepted.

THE WILD RICE HARVESTING ACT prohibits the harvesting of rice on Crown land except under the authority of a licence.

THE WOLF DAMAGE TO LIVESTOCK COMPENSATION ACT, 1972, provides for payment of compensation to the owners of livestock killed or injured by wolves.

THE MIGRATORY BIRDS CONVENTION ACT. Open seasons for migratory birds are set under this Act.

THE PROVINCIAL PARKS ACT provides for the establishment of provincial parks and their management and for certain employees having the authority of the O.P.P. in a provincial park. Advisory committees for one or more provincial parks may be appointed by the Minister with the approval of the Lieutenant Governor in Council.

Parks may be classified as a natural environment park, a nature reserve park, a primitive park, a recreational park, a wild river park or otherwise and may be zoned with controlled use in zones.

Mining is prohibited in provincial parks except as provided in the regulations. The regulations on mining were revoked in 1956 but rights and interest existing at that time were preserved.

Hunting is prohibited in provincial parks except as provided in the regulations. This does not apply to the Townships of Bruton and Clyde (added to Algonquin Provincial Park by a Special Act) and some of the newer parks.

Concession leases are granted under the Act. The Province calls for tenders for building and facilities provided.

Vehicle admission charge is \$1.50 per day or \$15.00 for the season. Campsite charges are \$3.50 per day (\$4.00 with hydro). The seasonal admission is valid for any provincial park or any park of the St. Lawrence Parks Commission. Overnight camping charges are \$2.00 per day or \$20.00 per 16 day period on unorganized campsites in park interiors.

This Act does not apply to any park under the management of the Niagara Parks Commission or the Ontario-St. Lawrence Development Commission.

THE WILDERNESS AREAS ACT was passed on March 26, 1959, to preserve areas having some unique feature. Development or utilization of the natural resources in an area more than 640 acres in size is not affected by this Act.

THE PARKS ASSISTANT ACT provides for the establishment of parks in municipalities or in territory without municipal organization. The Minister may with the approval of the Lieutenant Governor in Council make grants not exceeding 50% of the cost of acquiring land and developing such parks. The parks established under the Act are to be maintained and operated in a manner complementary to provincial parks.

AVIATION AND FIRE MANAGEMENT CENTRE

THE FOREST FIRES PREVENTION ACT applies to the 20 fire regions set up by regulation. The fire season, from April 1st to October 31st, may be extended by regulation. Fire permits are required during the fire season (to start in a fire region) except for fires set out for cooking or warmth and to ignite fireworks in or within 1000 feet of a forest or woodland. Work permits are required at any time of the year for carrying on logging, mining, and industrial operation, clearing, etc. in or within 1000 feet of a forest or woodland. Areas may be established as restricted fire zones in which fires will be restricted to portable stoves and barbecues or as restricted travel zones in which a permit will be required except on public roads, cities, towns, villages, police villages, supervised camping grounds and waters adjacent thereto or emergency areas in which the Minister may make orders for the safety and evacuation of persons. The Minister may enter into agreements with Canada, any province, any federal or provincial agency and municipality respecting the prevention and control of forest fires. The regulations establish fire precautions.

GENERAL

THE MINISTRY OF NATURAL RESOURCES ACT, 1972, established as of April 1, 1972, the new Ministry of Natural Resources which included the former Department of Lands and Forests and Department of Mines and Northern Affairs and repealed the provisions of a number of Acts on which the departments previously depended for administrative authority. Effective November 1, 1973, the Act provides for the appointment of a Mining and Lands Commissioner.

THE ST. CLAIR PARKWAY COMMISSION ACT, 1966, established the St. Clair Parkway Commission as a corporation without share capital for the purpose of developing, controlling, managing, operating and maintaining lands acquired by, vested in or placed under the control of the Commission in the Counties of Kent and Lambton and in the Cities of Chatham and Sarnia.

THE ST. LAWRENCE PARKS COMMISSION ACT continues the St. Lawrence Parks Commission as a corporation without share capital for the purpose of developing, controlling, managing, operating and maintaining lands vested in or placed under the control of the Commission in the Counties of Glengarry, Stormont, Dundas, Grenville, Frontenac, Lennox and Addington, and Leeds.

THE NIAGARA PARKS ACT continues the Niagara Parks Commission as a corporation for the purpose of managing, controlling and developing those parks or other lands vested in or placed under the control of the Commission.

THE LAKE OF THE WOODS CONTROL BOARD ACT, 1922, is complementary to a Federal Act of 1921. It deals with the regulation of the water levels of the Winnipeg River, the English River, Lac Seul and Lake St. Joseph. The Board was created following a report in 1917 by the International Joint Commission which was established under a treaty made in 1909 between United States and Great Britain. The membership of the Board consists of a Federal representative and one from Manitoba and two from Ontario. One Ontario member is appointed by the H.E.P.C. The other is S. B. Panting, Director Engineering Services Branch, Ministry of Natural Resources, with R. M. Odell as alternate member.

The Board has the duty to secure severally and at all times the most dependable flow and the most advantageous and beneficial use of the Winnipeg and English Rivers and, for that purpose, to regulate the overflow of:—

- (a) Lake of the Woods, to levels recommended by the International Joint Commission as agreed by Canada and the United States;
- (b) Lac Seul, to levels recommended by the Board and approved by the Lieutenant-Governors in Council of Ontario and Manitoba and to regulate the flow into Lac Seul through the Lake St. Joseph diversion.

(c) Winnipeg River, between its junction with the English River and Lake of the Woods, and the English River between its junction with the Winnipeg River and Lac Seul; and

(d) Other waters of the watershed of the Winnipeg River as are placed under its jurisdiction by the Governor-General in Council and the Lieutenant-Governors in Council of Ontario and Manitoba.

THE LAC SEUL CONSERVATION ACT, 1928, provides for the execution of an agreement between the Minister of Lands and Forests and the Government of Canada regarding the construction of a conservation dam at the outlet of Lac Seul.

THE OTTAWA RIVER WATER POWERS ACT, 1943, ratifies and confirms an agreement between the Province of Ontario, the Province of Quebec, the Hydro-Electric Power Commission of Ontario and the Quebec Streams Commission respecting the development of water power on the Ottawa River.

THE SEINE RIVER DIVERSION ACT, 1952, confirms the partial diversion of the Seine River and authorizes the completion and operation of the diversion by Steep Rock Iron Mines Limited.

THE NATIONAL RADIO OBSERVATORY ACT, 1962-3, provides for the transfer of administration and control of certain public lands in the Township of White, District of Nipissing to Canada for the maintenance and operation of a national radio observatory.

THE GANANOQUE LANDS ACT, 1961-2, vests certain lands in the Town of Gananoque in the Crown and authorizes the sale of encroachments to adjoining owners for a fee of \$50.00 and the granting of the balance of the land.

THE ALGONQUIN PROVINCIAL PARK EXTENSION ACT, 1960-1, adds the public lands in the Geographic Townships of Bruton and Clyde in the Provincial County of Haliburton to the park, subject to hunting.

THE MINERAL EMBLEM ACT, 1975, adopts the amethyst as the mineral emblem of the Province of Ontario.

POLICY AND PRIORITIES OFFICE

Main Office

Assistant Deputy Minister, Policy and Priorities	A. J. Herridge	W-6313 7106
Secretary	Miss Y. Watier	W-6313 7106

POLICY CO-ORDINATION SECRETARIAT

Director	Miss M. Mogford	W-6508 8422
Secretary	Mrs. O. Ironside	W-6508 8422
Outdoor Recreation Policy Officer	D. W. Simkin	W-6508 6712
Resource Products Policy Officer	R. P. Alton	W-6508 6371
Lands and Waters Policy Officer	L. Douglas	W-6508 6371
Policy Officers	L. Lamothe	W-6508 6371
Special Projects Officer	G. Robinson	W-6508 6371
	J. Kearns	W-6508 6712

PROGRAM ANALYSIS OFFICE

Co-ordinator	M. Cox	W-6310 4218
Secretary	Mrs. L. Guglick	W-6310 4218
Program Analyst, Lands & Waters	L. Bailey	W-6310 4218
Program Analyst, Resources & Recreation	G. E. Doan	W-6310 4218

NORTHWESTERN REGION

G. A. McCormack	Regional Director	Box 5160, 808 Robertson St., Kenora,
R. M. Monzon	Deputy Reg Director	Ont P9N 3X9 Phone (807) 468-3111
G. N. McGeachy ..	Admin Coord	
K. J. Chambers ..	Biologist	G. Brown Forester
R. V. Brady	Fire Mgt Officer	G. G. Pyzer Lands Co-ord
R. C. Beard	Geologist	R. Balkwill Parks & Rec Co-ord
L. Koskitalo	Geologist, Red Lake	S. O. Russell Eng Services Co-ord
P. Palonen	Geologist, Sioux Lookout	W. Buchan Mining Lands Admin

Region Service Centre, G. M. Fenelon, Box 850 Dryden Phone (807) 937-4489
 Dryden Forest Station, T. R. Myland, Box 90, Wabigoon Phone (807) 938-6326

KENORA DISTRICT

Box 5080, 808 Robertson St., Kenora	
Ont P9N 3X9 ..	Phone (807) 468-9841
D. B. McGregor ..	District Manager
L. Bent	Administration
D. Philippi	Field Services
G. K. Winterton	Fish & Wildlife
W. H. Mills	Forests
T. J. Lunny	Lands
R. W. Paterick	Parks

SIOUX LOOKOUT DISTRICT

Box 309, Sioux Lookout	
Ont P0V 2T0	Phone (807) 737-1140
J. F. Goodman	District Manager
W. L. Bertrand	Administration
H. D. Morrison	Field Services
A. A. Martin	Fish & Wildlife
J. M. McIntyre	Forests
F. E. Brown	Lands & Parks

RED LAKE DISTRICT

Box 323, Highway 105, Red Lake,	
Ont P0V 2M0	Phone (807) 727-2531
E. W. Everley	District Manager
G. C. Carlson	Administration
P. D. Drysdale	Fish, Wildlife, Parks
P. R. Gagnon	Forests
T. Campbell	Field Services,
E. R. Keast	Lands

FORT FRANCES DISTRICT

922 Scott Street, Fort Frances	
Ont P9A 1J4 ..	Phone (807) 274-5337
D. J. D'Agostini ..	District Manager
B. Y. Katerick	Administration
S. E. Cameron	Field Services
E. J. Swift	Fish & Wildlife
W. D. McJannet ..	Forests
C. E. Horne	Lands
E. J. Swift	Parks

DRYDEN DISTRICT

Box 3000, Ontario Govt Bldg, Dryden	
Ont P8N 3B3 ..	Phone (807) 223-3341
P. Endress	District Manager
J. Hamilton	Administration
A. MacDonald	Field Services
J. Williamson	Fish & Wildlife
A. Van Fraassen ..	Forests
D. Lindstrom	Lands & Parks

IGNACE DISTRICT

Box 448, Ignace	
Ont P0T 1T0	Phone (807) 934-2233
T. E. Dodds	District Manager
W. A. Brunton	Administration
P. R. Croskery	Fish & Wildlife
A. P. Matiece	Forests, Parks
J. D. Bond	Field Services,
P. J. Pincombe	Lands

NORTH CENTRAL REGION

R. A. Baxter	Regional Director	Box 5000, Ontario Government Building
L. M. Affleck	Deputy Reg Director	435 James St. South, Thunder Bay 'F'
W. Hendry	Deputy Reg Director	Ont P7C 5G6 .. Phone (807) 475-1261
J. D. Chadwick	Admin Coord	1221
C. A. Elsey	Biologist	1231
H. Redding	Fire Mgt Officer ..	1241
J. F. Flowers	Forester	1251
D. A. Fawcett	Parks-Rec Coord ..	1281
Dorion Trout Rearing Station, H. Manson		Phone (807) 857-2322
Regional Fire Centre, R. Kincaid		Phone (807) 475-1405
Thunder Bay Forest Station, A. Wynia		Phone (807) 939-2465

THUNDER BAY DISTRICT

Box 5000, Thunder Bay 'F'
 Ont P7C 5G6 Phone (807) 475-1501

J. E. Hamilton	District Manager
L. O. Keller	Administration
A. B. Johnson	Field Services
R. T. Thomson	Fish & Wildlife
R. G. Klein	Forests
T. Leveque	Parks & Rec
J. W. Suttie	Lands

ATIKOKAN DISTRICT

108 Saturn Avenue, Atikokan
 Ont P0T 1C0 .. Phone (807) 597-6971

M. P. Barker	District Manager
B. A. Prince	Administration
F. Dustak	Field Services
B. H. Gibson	Fish and Wildlife
A. G. Dougall	Forests
D. H. Elder	Lands & Parks

WHITE RIVER DISTRICT

200 Winnipeg St., White River
 Ont P0M 3G0 .. Phone (807) 822-2250

D. O'Grady	District Manager
D. Futhey	Administration
K. Fuller	Field Services
R. Jerrard	Fish & Wildlife
D. E. Fry	Forests
G.H. Tabobundune	Lands & Parks

GERALDTON DISTRICT

Box 640, Geraldton, Ont P0T 1M0	Phone (807) 854-1030
J. K. Cleaveley	District Manager
L. S. Morrow	Administration
I. A. Cameron	Field Services
E. H. Stone	Fish & Wildlife
D. Jovic	Forests
A. Hoshino	Lands & Parks

NIPIGON DISTRICT

Box 970, Nipigon Ont P0T 2J0	Phone (807) 887-2120
G. O. Koistinen ..	District Manager
M. Wilson	Administration
W. R. Doyon	Field Services
L. Townes	Fish & Wildlife
G. Marek	Forests
G. T. Bean	Lands & Parks

TERRACE BAY DISTRICT

Box 280, Terrace Bay, Ont P0T 2W0 ..	Phone (807) 825-3205
L. J. Haas	District Manager
G. K. Sidhu	Administration
B. J. Lapenskie ..	Field Services
J. A. Chappel	Fish & Wildlife
T. B. Scott	Lands & Parks
Manitouwadge Work Centre	
Box 309, Manitouwadge Ont P0T 2C0 ..	Phone (807) 826-3225
L. Skinkle	Forests
C. J. Currie	Fire Control

NORTHERN REGION

J. R. Oatway	Regional Director	Box 3000, 140 Fourth Ave., Cochrane,
L. H. Lingenfelter	Deputy Reg Director	Ont P0L 1C0 Phone (705) 272-4287
M. F. McKenzie ..	Biologist ..	D. Schafer
R. O. Brandes	Forester ..	Deputy Reg Director 60 Wilson Avenue, Timmins,
H. I. Mattson	Parks & Rec Co-ord 4 Govt Rd E, Kirkland Lake, Ont P2N 1A1 ..	Ont P4N 3W2 .. Phone (705) 267-1401
H. V. Lovell	Res Geologist ..	D. Jones
E. Craig	Mining Recorder ..	L. Tihor
Swastika Forest Station, L. J. Forcier		F. J. Wilson
Hill Lake Trout Rearing Station, P. Graf		R. Barty
		Eng Services Co-ord
		Phone (705) 642-3255
		Phone (705) 544-2834

COCHRANE DISTRICT

Box 730, 2 Third Ave, Cochrane, Ont P0L 1C0 ..	Phone (705)272-4365
G. A. Wright	District Manager ..
G. Nantel	Administration ..
A. C. Hutchinson	Field Services ..
W. Therriault	Fish & Wild & Parks ..
J. Starr	Forests ..
F. Wright	Lands ..

CHAPLEAU DISTRICT

34 Birch Street, Chapleau, Ont P0M 1K0 ..	Phone (705) 864-1710
R. G. Elliott	District Manager ..
O. E. Crawford	Administration ..
J. R. Russell	Field Services ..
G. L. Penny	Fish & Wildlife ..
K. E. Cleary	Forests ..
J. P. Dick	Lands ..
G. W. Dingee	Parks ..

GOGAMA DISTRICT

Box 129, Gogama Ont P0M 1W0 ..	Phone (705) 894-2000
C. Dionne	District Manager ..
V. Mathieu	Administration ..
M. Sitts	Field Services ..
C. Jessop	Fish & Wildlife ..
G. C. Oldford	Forests ..
D. Stewart	Lands & Parks ..

HEARST DISTRICT

Box 670, 631 Front St., Hearst Ont P0L 1N0 ..	Phone (705) 362-4346
C. E. Emblin	District Manager ..
W. C. Trowsse	Administration ..
L. G. Woods	Field Services ..
S. St. Jules	Fish & Wildlife ..
T. R. Isherwood ..	Forests .. 362-4264
M. J. Girouard	Lands & Parks ..

KAPUSKASING DISTRICT

6 Government Road, Kapuskasing, Ont P5N 2W4 ..	Phone (705) 335-6191
R. G. Lightheart ..	District Manager ..
R. W. E. Stone ..	Administration ..
R. Carriere ..	Field Services ..
J. T. Rudolph ..	Fish & Wildlife ..
D. Miller	Forests .. Lands & Parks

KIRKLAND LAKE DISTRICT

Box 129, Swastika, Ont P0K 1T0 ..	Phone (705) 642-3222
J. G. Minor	District Manager ..
J. S. Purves	Administration ..
W. G. Taylor	Field Services ..
J. F. Gardner	Fish & Wildlife ..
B. I. Thompson ..	Forests ..
J. A. Colquhoun ..	Lands ..
W. B. Hill	Parks ..

TIMMINS DISTRICT

896 Riverside Drive, Timmins, Ont P4N 3W2 ..	Phone (705) 264-1262
A. F. Papineau	District Manager ..
F. Gervais	Administration ..
D. Shewen	Field Services ..
W. A. Sinclair	Fish & Wildlife ..
D. Jefferson	Forests ..
C. Biggar	Lands & Parks ..

MOOSONEE DISTRICT

Box 190, Moosonee, Ont P0L 1Y0 ..	Phone (705) 336-2987
A. J. Stewart	District Manager ..
F. Buchan	Administration ..
G. F. McAuley	Field Services, Lands, Forests, Parks ..
J. P. Prevett	Biologist ..

NORTHEASTERN REGION

W. G. Cleaveley	Regional Director	174 Douglas St West, Sudbury
D. J. Vance	Deputy Reg Director	Ont P3E 1G1 Phone (705) 673-1111
R. M. Christie	Deputy Reg Director	
J. C. Kindness	Admin Coord	W. Belisle Eng Serv Coord
A. W. McClellan ..	Cons Auth Prg-Supr	J. L. Canfield Fire Mgmt Coord
D. Jodouin	Mining Lands Admin	(vacant) Biologist
R. M. Charnesky ..	Mining Recorder	H. Kresin Engineer
Sault Ste. Marie	(705)	W. C. Stevens Forester
M. V. St. Jules	Mining Recrdr 254-6884	E. E. Multamaki Lands Coord
Dr. P. E. Giblin	Geologist 942-1414	(vacant) Parks-Rec Coord

Tarentorus Trout Rearing Station, D. V. Storms (S.S. Marie) Phone (705) 253-8953
 North Bay Trout Rearing Station, B. A. Marchant (North Bay).... Phone (705) 663-2311
 Standfield Fish Hatchery, G. Clarke (Espanola) Phone (705) 22-R-211

SAULT STE. MARIE DISTRICT

Box 130, 69 Church St, S.S. Marie,	
Ont P6A 5L5 Phone (705) 949-1231	
J. H. Sellers	District Manager
H. J. Smith	Administration
L. G. Bell	Fire Control
E. F. Mantle	Fish & Wildlife
F. Janser	Forests
I. J. Valentine	Lands
L. R. Davey	Parks

NORTH BAY DISTRICT

Box 3070, North Bay,	
Ont P1B 8K7 Phone (705) 474-5550	
E. Rogers	District Manager
G. E. Lacelle	Administration
H. N. Whalen	Field Services
M. R. Wolfe	Fish & Wildlife
D. E. Honeyborne..	Forests
R. V. Coulombe	Lands
H. J. Edmundson..	Parks

WAWA DISTRICT

Box 1160, Wawa,	
Ont P0S 1K0 Phone (705) 856-2396	
W. J. Straight	District Manager
Mrs. J. M. Kern	Administration
A. J. Bull	Field Serv & Parks
H. A. Orr	Fish & Wildlife
C. K. Sumi	Forests
E. V. Uhler	Lands

TEMAGAMI DISTRICT

Box 38, Temagami,	
Ont P0H 2H0 Phone (705) 569-3622	
J. E. Rumney	District Manager
W. W. Hicks	Administration

SUDBURY DISTRICT

Box 3500, Stn A, Sudbury	
Ont P3A 4S2 ... Phone (705) 522-7823	
D. E. McHale	District Manager
M. H. Jackson	Administration
W. Wetow	Field Services
J. M. Sheppard	Fish & Wildlife
D. R. Potvin	Forests
M. K. Smith	Lands
K. H. Moore	Parks

BLIND RIVER DISTRICT

Box 190, 62 Queen St, Blind River,	
Ont P0R 1B0 Phone (705) 356-2234	
D. L. Hagar	District Manager
F. McWhinnie	Administration
W. J. Davis	Field Services
S. B. Woodside	Fish & Wildlife
C. F. Husk	Forests
R. H. Wood	Lands
G. W. Connell	Parks

ESPAÑOLA DISTRICT

Box 1340, Espanola,	
Ont P0P 1C0 Phone (705) 869-1330	
E. N. Arbuckle	District Manager
F. J. Valiquette	Administration
J. P. King	Field Serv & Parks
D. R. Hughson	Fish & Wildlife
J. C. Christian	Forests
D. C. Carnochan ..	Lands

H. G. Smith	Field Services
W. P. Brook	Forests
R. B. Sinclair	Lands & Parks
S. T. Flemming	Fish & Wildlife

ALGONQUIN REGION

K. K. Irizawa	Regional Director	Box 9000, Brendale Square, Huntsville, Ont P0A 1K0	Phone (705) 789-9611
A. E. Walroth	Deputy Reg Director		
R. H. Hambly	Deputy Reg Director		
J. Carswell	Admin Coord	H. J. Henry	Forester
C. W. Douglas	Biologist	J. R. Trusler	Geologist
A. P. Stephen	Engineer	J. K. Barker	Lands Co-ord
B. Petman	Fire Mgt Officer	J. A. van der Meer	Parks & Rec Co-ord

The Leslie M. Frost Natural Resources Centre, G. A. Hamilton . Phone (705) 766-2451
Pembroke Trout Rearing Station, A. G. Moore Phone (613) 687-5935
Skeleton Lake Fish Hatchery, M. E. Beathune Phone (705) 769-3731

PARRY SOUND DISTRICT

4 Miller Street, Parry Sound, Ont P2A 1S8	Phone (705) 746-2141
W. J. Lovering	District Manager
G. F. Walter	Administration
C. R. Mumford	Field Services 5825
J. A. Macfie	Fish & Wildlife
G. C. Felton	Forests
J. A. Shalla	Parks
L. A. Connelly	Lands

ALGONQUIN PARK DISTRICT

Box 219, Whitney, Ont K0J 2M0	Phone (705) 637-2780
J. A. Simpson	Park. Supt, Dist. Man.
J. E. Growse	Administration
H. J. Rietveld	Fish & Wildlife
D. F. George	Forests
J. E. Elliott	Lands
J. T. Griffin	Alg Park Operations
B. A. Norris	Field Services

BRACEBRIDGE DISTRICT

Box 1138, Bracebridge, Ont P0B 1C0	Phone (705) 645-5244
J. H. Lever	District Manager
J. A. Baird	Administration
J. T. Matthews	Field Services
D. M. Brooks	Fish & Wildlife
R. W. Taylor	Forests
J. A. Bryant	Lands
R. G. Ellis	Parks

BANCROFT DISTRICT

Box 500, Bancroft, Ont K0L 1C0	Phone (613) 332-3940
O. Goodman	District Manager
H. E. Vance	Administration
M. F. Rush	Field Services
B. Collins	Fish & Wildlife
F. J. Walker	Forests
D. W. McLennan ..	Parks
O. Fleming	Lands

PEMBROKE DISTRICT

Box 220, Riverside Drive, Pembroke, Ont K8A 6X4	Phone (613) 732-3661
L. L. Bronson	District Manager
A. H. Plummer	Administration
C. R. Buske	Field Services
A. E. Armstrong ..	Fish & Wildlife
W. W. Wahl	Forests
E. N. McKenzie	Lands & Mines
G. D. Yarranton	Parks

MINDEN DISTRICT

Minden, Ont K0M 2K0	Phone (705) 286-1521
D. D. White	District Manager
R. E. Raby	Administration
G. M. Samells	Field Services
B. G. Cross	Fish & Wildlife
B. G. Cross	Forests
J. E. Dewey	Lands & Parks

EASTERN REGION

T. W. Hueston	Regional Director	Provincial Government Building, Concession Road, Kemptville Ont K0G 1J0	Phone (613) 258-3413
D. E. Gage	Deputy Reg Director		
S. R. Hamilton	Deputy Reg Director		
A. R. Taylor	Admin Coord		
G. R. Whitney	Biologist	W. G. Maslen	Lands Co-ord
D. J. Murray	Cons Auth Prg-Supr	J. G. Bell	Parks & Rec Co-ord
A. G. Thomas	Acting Engineer	Dr. M. A. Klugman	Mines Co-ord
P. E. Anslow	Forester	J. W. Lloyd	Field Services Co-ord
Codrington Fish Hatchery, A. H. Draves			Phone (613) 475-2512
White Lake Fish Hatchery, K. Steele			Phone (613) 335-2115
Westport Fish Hatchery, G. E. Raine			Phone (613) 273-2106
G. Howard Ferguson Forest Station, A. J. Campbell			Phone (613) 258-3413

TWEED DISTRICT

Metcalfe Street, Tweed, Ont K0K 3J0	Phone (613) 478-2330
W. Vonk	District Manager
G. J. O'Hearn	Administration
W. F. Caverly	Field Serv & Lands
D. G. Atkinson	Fish & Wildlife
W. M. Fasken	Forests
W. J. Miller	Parks

LANARK DISTRICT

Box 239, Lanark, Ont K0G 1K0	Phone (613) 259-2942
J. R. Bailey	District Manager
G. N. Hill	Administration
H. K. von Rosen	Fish & Wildlife
J. D. McCready	Forests
D. G. Kennedy	Field Services, Lands
K. J. Schonauer	Parks

OTTAWA DISTRICT

Ramsayville, Ont K0A 2Y0	Phone (613) 822-2525
W. D. Adlam	District Manager
R. G. McCue	Administration
R. N. Jones	Fish & Wildlife
M. Schaefer	Forests
L. J. Munro	Field Services, Lands
G. A. Gowdy	Parks

NAPANEE DISTRICT

Postal Bag 3040, Napanee, Ont K7R 3M8	Phone (613) 354-2173
R. G. Bailey	District Manager
R. A. Armstrong	Administration
W. A. Perrin	Forests, Field Serv
R. G. Baldwin	Fish & Wildlife
R. Griffiths	Lands
J. C. Matheson	Parks

BROCKVILLE DISTRICT

101 Water St West, Brockville, Ont K6V 5Y8	Phone (613) 342-8524
R. H. Trotter	District Manager
D. G. Gilmer	Administration
G. L. Penney	Fish & Wildlife
H. H. de Vries	Forests
R. A. Lessard	Field Services & Lands & Parks

CORNWALL DISTRICT

Box 1749, 113 Amelia St, Cornwall, Ont K6H 5V7	Phone (613) 933-1774
J. R. Morin	District Manager
W. J. Humphrys	Administration
W. R. Lannin	Fish & Wildlife
B. W. Warwick	Forests
K. E. Green	Field Services, Parks
R. A. Pleau	Lands

CENTRAL REGION

R. M. Dixon	Regional Director	295	10,670 Yonge Street, Richmond Hill,
A. D. Latornell	Dep Reg Director	297	Ont L4C 3C9 Phone (416) 884-9203
D. R. Johnston	Dep Reg Director	290	
H. Tjoelker	Admin Coord	208	L. G. D. Thompson Mines Co-ord 232
J. B. Dawson	Biologist	282	M. G. Lewis
F. G. Shaw	Cons Auth Co-ord	206	H. J. Featherston Service Engineer 216
R. N. Staley	Forester	289	Parks-Rec Co-ord 299

Midhurst Forest Station, Midhurst, C.R. Groves	Phone (705) 728-6599
Orono Forest Station, Orono, W. R. Bunting	Phone (416) 983-9147
Ontario Tree Seed Plant, Angus, R. B. Latimer	Phone (705) 424-5311
Deer Lake Fish Hatchery, R.R. 1, Havelock, G. Cation	Phone (705) 778-3391

MAPLE DISTRICT

Maple, Ont L0J 1E0	Phone (416) 832-2761	
I. B. Earl	District Manager	203
W. B. Pottelberg ..	Administration	300
D. M. Hogg	Fish & Wildlife	211
C. D. Simpson	Lands	208
M. Charbonneau ..	Parks	240
Si Dae Kim	Forests, Fld Serv	224
R. N. Kervin	Mineral Resources	210

LINDSAY DISTRICT

322 Kent St West, Lindsay, Ont K9V 2Z9	Phone (705) 324-6121
C. R. Gray	District Manager
A. V. Kaufman	Administration
P. A. Smith	Fish & Wildlife
R. W. Beecher	Forests, Fld Serv
M. L. Dick	Lands, Mineral Res.
R. W. Allen	Parks

HURONIA DISTRICT

Midhurst, Ont L0L 1X0	Phone (705) 728-2900
W. D. Mansell	District Manager
D. H. Poff	Administration
L. W. O'Dell	Fld Services, Fire
A. W. Smith	Fish & Wildlife
M. R. Innes	Forests
D. R. MacArthur ..	Lands, Min Res
L. L. Powell	Parks

CAMBRIDGE DISTRICT

Beaverdale Road, Cambridge Ont N3C 2V3	Phone (519) 658-9355
W. R. Catton	District Manager
B. J. DeGunst	Administration
J. R. Winters	Lands Coord
G. M. Tupling	Fish & Wildlife
R. C. A. Gilbert ..	Forests, Field Serv
R. J. Cleroux	Parks
W. D. Scott	Mineral Resources

NIAGARA DISTRICT

Box 1070, Highway No. 20, Fonthill, Ont L0S 1E0	Phone (416) 892-2656
J. E. Dickenson ..	District Manager
Mrs. J. T. Mace ..	Administration
E. A. Kraker	Forests, Fld Serv
H. D. Howell	Fish & Wildlife
L. C. Selby	Lands
D. A. Routly	Mineral Resources
R. J. Harvey	Parks

SOUTHWESTERN REGION

N. D. Patrick	Regional Director	1106 Dearness Drive, London, Ont N6E 1N9 Phone (519) 681-5350
J. M. Halpenny	Deputy Reg Director	
A. S. Holder	Deputy Reg Director	
V. H. Crocker	Admin Coord	
T. J. Millard	Biologist	B. G. Bryant Geologist
R. D. Hunter	Cons Auth Prg-Supr	H. R. Davis Mines Co-ord
P. H. Crook	Engineer	J. A. Fingland Lands Co-ord
E. P. Johnston	Forester	A. M. Harjula Parks & Rec Co-ord
Chatsworth Fish Hatchery, P. H. Hartman		Phone (519) 794-2340
Wiarton Fish Hatchery, C. Core		Phone (519) 534-0770
Normandale Fish Hatchery, W. A. Hooper		Phone (519) 426-3142
St. Williams Forest Station, R. E. Laupert		Phone (519) 586-3576
Petroleum Resources Lab, London		Phone (519) 433-8431
CHATHAM DISTRICT		SIMCOE DISTRICT
Box 1168, 435 Grand Ave West, Chatham, Ont N7M 5L8 ..	Phone (519) 354-7340	645 Norfolk Street North, Simcoe Ont N3Y 3R2 ..
D. R. Fortner	District Manager	Phone (519) 426-7650
H. Lehmann	Admin, Eng Services	R. G. McGee
J. K. Young	Fish & Wildlife	G. N. Sanderson
K. Yaraskavitch ..	Forests	J. M. Collins
P. A. Strassburger	Parks	D. A. Scott
H. W. Rowe	Lands, Min Resources	T. L. Beck
		W. L. Edwards
		Mineral Resources
OWEN SOUND DISTRICT		WINGHAM DISTRICT
611 Ninth Ave East, Owen Sound, Ont N4K 3E4 ..	Phone (519) 376-3860	R.R. 5, Wingham
R. W. Tippett	District Manager	Ont N0G 2W0 ..
M. Gobeil	Administration	Phone (519) 357-3131
S. A. Munroe	Fish & Wildlife	N. R. Richards
V. W. Fisk	Forests	B. G. Griffin
R. J. Manley	Lands, Min Resources	H. W. Clark
P. H. Baxter	Parks	H. R. Lancaster
E. G. Walker	Fire, Eng Services	A. D. Carr
		Lands, Eng Services
AYLMER DISTRICT		
353 Talbot Street West, Aylmer Ont N5H 2S8 ..	Phone (519) 773-9241	
P. R. Davidson	District Manager	
D. N. Stephens ..	Administration	
G. R. Austin	Fish & Wildlife	
J. D. Nolan	Forests	
D. G. Ward	Parks, Lands	
	Engineering Services	
	Mineral Resources	



Ministry of
Natural
Resources

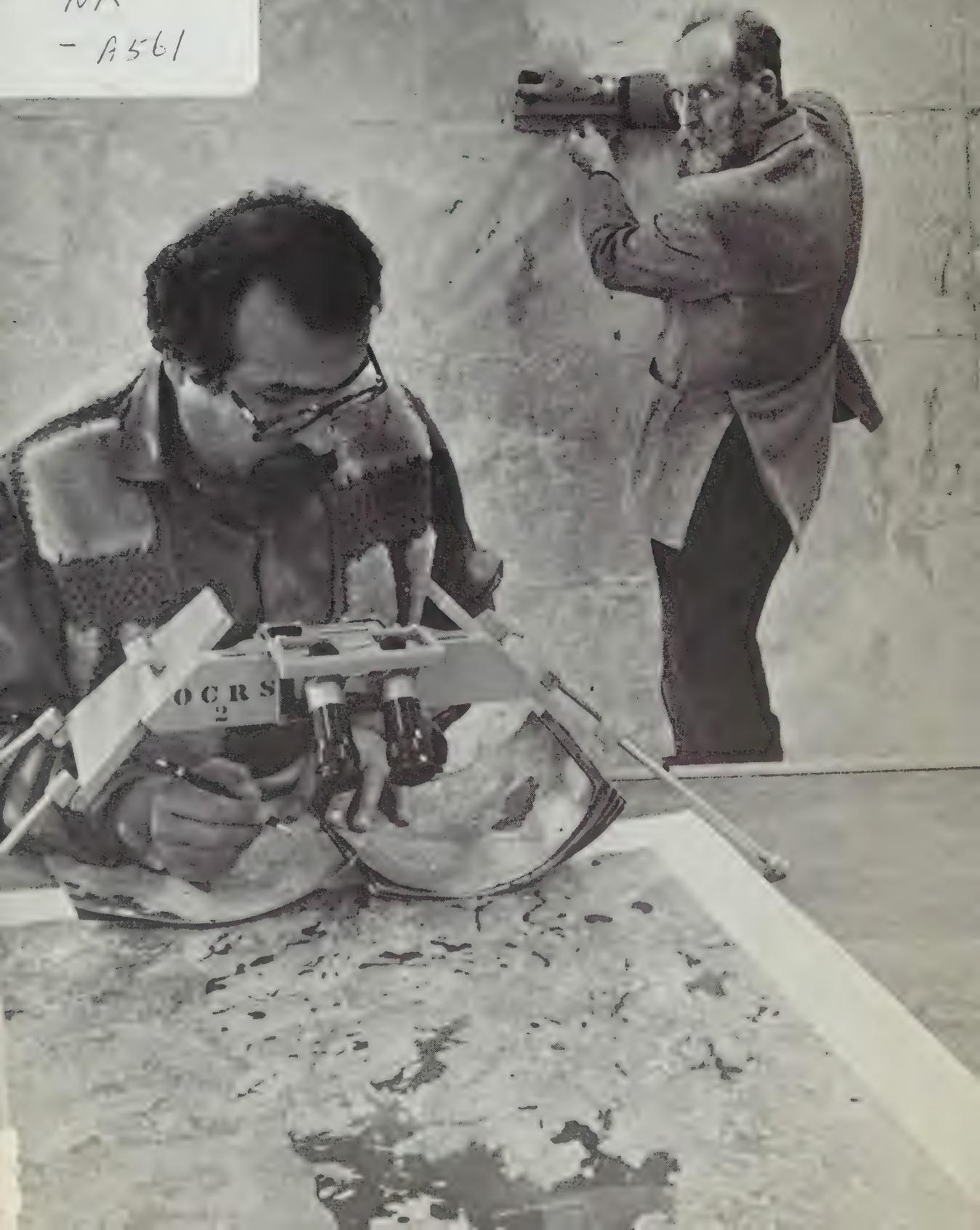
Statistics

1979

CAZON

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Statistics

1979

A statistical supplement to the Annual Report of the Minister of Natural Resources for the year ending March 31, 1979

\$1.00



**Ministry of
Natural
Resources**

Hon. James A. C. Auld
Minister

Dr. J. K. Reynolds
Deputy Minister

OFFICE OF DEPUTY MINISTER

Room W-6320, Main Office. Telephone (416) 965-2704.

Deputy Minister	Dr. J .K. Reynolds	W-6320 ... 2704
Administrative Assistant	Mrs. I. Mack	W-6320 ... 5873
Science Adviser and Research Co-ordinator	Dr. M. F. Walmsley	W-6312 ... 5720
Special Adviser on Forest Regeneration	Prof. K. A. Armson	W-3621 ... 3040

POLICY CO-ORDINATION SECRETARIAT

Director	Mrs. M. B. Fordyce	W-6540 ... 8422
Secretary	Mrs. O. Ironside	W-6540 ... 8422
Outdoor Recreation Policy Officer	D. W. Simkin	W-6540 ... 6712
Resource Products Policy Officer	R. P. Alton	W-6540 ... 6712
Lands and Waters Policy Officer	L. Douglas	W-6540 ... 6371
Policy Officers	L. Lamothe	W-6540 ... 6371
Special Projects Officer	G. Robinson	W-6540 ... 6371
	J. Kearns	W-6540 ... 6712

MINISTRY REGIONS AND DISTRICTS

Areas in Square Kilometres*

NORTHWESTERN REGION

Dryden	11,961	
Fort Frances	10,847	
Ignace	11,463	
Kenora	14,188	
Red Lake	64,105	
Sioux Lookout	112,097	224,661
Pt. Rainy Lake	1,222	
Pt. Lake of the Woods	2,427	3,649
Total, Region		228,310

NORTH CENTRAL REGION

Atikokan	11,322	
Geraldton	112,784	
Nipigon	25,574	
Terrace Bay	12,673	
Thunder Bay	28,450	
White River	7,451	198,254
Lake Nipigon	5,006	
Pt. Lake Superior	19,070	24,076
Total, Region		222,330

NORTHERN REGION

Chapleau	23,602	
Cochrane	30,715	
Gogama	7,752	
Hearst	25,245	
Kapuskasing	21,225	
Kirkland Lake	13,312	
Moosonee	215,741	
Timmins	7,899	345,491
Pt. Lake Abitibi	790	790
Total, Region		346,281

NORTHEASTERN REGION

Blind River	9,516	
Espanola	9,523	
North Bay	10,668	
Sault Ste. Marie	7,912	
Sudbury	12,725	
Temagami	6,856	
Wawa	15,084	72,284
Pt. Lake Huron and Lake Superior	22,245	
Lake Nipissing	816	
Lake Wahnapitae	145	23,206
Total, Region		95,490

ALGONQUIN REGION

Algonquin Park	9,376	
Bancroft	4,359	
Bracebridge	6,454	
Minden	4,745	
Parry Sound	7,187	
Pembroke	7,306	39,427
Pt. Georgian Bay	3,875	3,875
Total, Region		43,302

EASTERN REGION

Brockville	3,496	
Cornwall	5,594	
Lanark	3,300	
Napanee	6,537	
Ottawa	2,976	
Tweed	6,485	28,389
Pt. Lake Ontario	4,333	4,333
Total, Region		32,722

SOUTHWESTERN REGION

Aylmer	6,731	
Chatham	7,389	
Owen Sound	7,817	
Simcoe	2,818	
Wingham	6,889	31,644
Pt. Lake Huron and Lake Erie	30,950	
Pt. Lake St. Clair	673	31,624
Total, Region		63,268

CENTRAL REGION

Cambridge	7,141	
Huronia	6,550	
Lindsay	6,856	
Maple	4,812	
Niagara	2,670	28,029
Pt. Lake Ontario and Lake Erie	8,109	
Lake Simcoe	741	8,850
Total, Region		36,879

TOTALS

49 Districts	968,179	
12 Lakes	100,403	
Area of Ontario	1,068,582	

MINISTRY REGIONS AND DISTRICTS

Areas in Square Miles*

NORTHWESTERN REGION

Dryden	4,618	
Fort Frances	4,188	
Ignace	4,426	
Kenora	5,478	
Red Lake	24,751	
Sioux Lookout	43,281	86,742
Pt. Rainy Lake	472	
Pt. Lake of the Woods	937	1,409
Total, Region		88,151

NORTHERN REGION

Chapleau	9,113	
Cochrane	11,859	
Gogama	2,993	
Hearst	9,747	
Kapuskasing	8,195	
Kirkland Lake	5,140	
Moosonee	83,298	
Timmins	3,050	133,395
Pt. Lake Abitibi	305	305
Total, Region		133,700

ALGONQUIN REGION

Algonquin Park	3,620	
Parry Sound	2,775	
Bancroft	1,683	
Bracebridge	2,492	
Minden	1,832	
Pembroke	2,821	15,223
Pt. Georgian Bay	1,496	1,496
Total, Region		16,719

SOUTHWESTERN REGION

Aylmer	2,599	
Chatham	2,853	
Owen Sound	3,018	
Simcoe	1,088	
Wingham	2,660	12,218
Pt. Lake Huron and Lake Erie	11,950	
Pt. Lake St. Clair	260	12,210
Total, Region		24,428

NORTH CENTRAL REGION

Atikokan	4,371	
Geraldton	43,546	
Nipigon	9,874	
Terrace Bay	4,893	
Thunder Bay	10,985	
White River	2,877	76,546
Lake Nipigon	1,933	
Pt. Lake Superior	7,363	9,296
Total, Region		85,842

NORTHEASTERN REGION

Blind River	3,674	
Espanola	3,677	
North Bay	4,119	
Sault Ste Marie	3,055	
Sudbury	4,913	
Temagami	2,647	
Wawa	5,824	27,909
Pt. Lake Huron and Lake Superior	8,589	
Lake Nipissing	315	
Lake Wahnapitae	56	8,960
Total, Region		36,869

EASTERN REGION

Brockville	1,350	
Cornwall	2,160	
Lanark	1,274	
Napanee	2,524	
Ottawa	1,149	
Tweed	2,504	10,961
Pt. Lake Ontario	1,673	1,673
Total, Region		12,634

CENTRAL REGION

Cambridge	2,757	
Huronia	2,529	
Lindsay	2,647	
Maple	1,858	
Niagara	1,031	10,822
Pt. Lake Ontario and Lake Erie	3,131	
Lake Simcoe	286	3,417
Total, Region		14,239

TOTALS

49 Districts	373,816
12 Lakes	38,766
Area of Ontario	412,582

* November 19, 1979
Surveys and Mapping Branch

FOREST RESOURCES GROUP

Room W-3623, Main Office. Telephone (416) 965-4319.

Executive Co-ordinator	A. H. Peacock	W-3623 ... 4319
Secretary	Mrs. I. Hart	4319
Administrative Officer	L. P. Comeau	W-3630 ... 2731

FOREST RESOURCES BRANCH

Room W-3645, Main Office. Telephone (416) 965-2785.

Director	W. K. Fullerton	W-3645 ... 2787
Advisory Services Section	(vacant)	W-3626 ... 2785
Head Forestry Extension Services	J. F. W. Gourlay	W-3627 ... 2785
Agreement Administration	A. H. Cooper	W-3644 ... 2785
Audit Co-ordinator	D. Holder	W-3643 ... 2785
Assessment	M. Chaudhry	W-3629 ... 2785
Special Products	(vacant)	W-3628 ... 2785
Specialist Extension	(vacant)	2785
Silviculture Section	(vacant)	W-3653 ... 2575
Tree Seed Program	C. H. Lane	W-3649 ... 2575
Planting Stock	K. Reese	W-3648 ... 2575
Environmental Silviculturist	A. van Fraassen	W-3651 ... 2575
Silviculturist, Boreal Forest	F. C. Robinson	W-3652 ... 2575
Silviculturist, Hardwood, Pine	J. D. Scott	W-3642 ... 2575
Silviculturist, Seed, Genetics	R. M. Rauter	W-3631 ... 2785
Tree Distribution	H. H. Tiemann	W-3647 ... 2785
Nursery Soils	V. Sadreika	W-3647 ... 2575
Pest Control Section	Dr. R. Carrow	(Maple) 832-2761
Forest Pathologist	B. McGauley	2761
Forest Entomologist	C. S. Kirby	2761
Herbicide	Dr. R. A. Campbell	2761
Pesticide Applications	S. A. Nicholson	2761

ONTARIO FOREST RESEARCH CENTRE

Maple, Ontario L0J 1E0

Telephone (416) 832-2761

Head	Dr. D. Burger	Extension 317
Tree Breeding		
Poplar, soft pines	Dr. L. Zsuffa (Leader)	Extension 295
Spruce	(vacant)	Extension 295
Hard pines	G. Buchert	Extension 249
Regional Specialist	K. Eng	Extension 295
Silviculture & Tree Biology		
Frost hardiness and dormancy	Dr. C. Glerum (Leader)	Extension 316
Hardwood quality	H. W. Anderson	Extension 312
Root development	Dr. D. C. F. Fayle	Extension 332
Southern Ontario hardwoods (uplands)	P. Jaciw	Extension 284
Southern Ontario hardwoods (lowlands)	H. C. Larsson	Extension 264
Seed	D. A. Skeates	Extension 305
Silviculture	G. Stroempl	Extension 311
Development	(vacant)	Extension 301
Site and Productivity		
Moisture	G. Pierpoint (Leader)	Extension 331
Mensuration	A. F. Beckwith	Extension 265
Tree nutrition	R. H. Leech	Extension 306
Foliar analysis	Y. T. Kim	Extension 304
Biomathematics	Dr. F. L. Raymond	Extension 319
Photography	Jean Robinson	Extension 321
Poplar/site growth	G. A. Sinclair	Extension 324
Mechanical Silvicultural equipment	A. Citro	Extension 248
FIELD UNITS		
Box 2960, Thunder Bay, Ont. P7B 5G5		
White spruce	N. F. Lyon (Leader)	(807) 767-1607
Black spruce	K. M. McClain	1607
Stand dynamics & fir silvic	(vacant)	1607
Poplar	D. H. Weingartner	1607
Box 490, Sault Ste. Marie, Ont. P6A 5M7		
Spruce, nutrient cycling	Dr. A. G. Gordon	(705) 949-9461
Box 190, Dorset, Ont. P0A 1E0		
Tolerant hardwoods	M. M. McLean	(705) 766-2671
Midhurst, Ont. L0L 1X0		
Nursery stock	Dr. R. E. Mullin	(705) 726-7640

FOREST TREE PRODUCTION BY MINISTRY NURSERIES

Number of trees in years ending March 31

Year	Bare Root	Container	Total
1970	62,623,496	5,958,388	68,581,884
1971	68,182,719	4,427,678	72,610,397
1972	76,597,391	5,079,258	81,676,649
1973	68,161,039	2,862,114	71,023,153
1974	65,362,395	3,402,228	68,764,623
1975	59,794,450	3,148,406	62,942,856
1976	50,944,733	5,346,866	56,291,599
1977	45,981,122	4,291,764	50,272,886
1978	48,291,842	5,461,375	53,753,217
1979	52,928,125	5,487,210	58,415,335

USE OF NURSERY STOCK

Number of trees in year ending March 31, 1979

Use	Bare Root	Container	Total
Crown Land and Agreement			
Forest	35,186,281	5,487,210	40,673,491
WIA*	7,736,775	—	7,736,775
Other Private Land	9,405,081	—	9,405,081
Education or Science	599,988	—	599,988
Total	52,928,125	5,487,210	58,415,335

*The Woodlands Improvement Act.

TREE PRODUCTION BY SPECIES

Number of trees in years ending March 31

Species	1975	1976	1977	1978	1979
White Spruce	24,442,029	16,388,336	14,477,741	14,440,212	13,704,591
Black Spruce	9,427,668	6,523,898	5,736,509	8,507,184	13,170,734
Red Pine	10,640,697	8,202,148	9,043,522	7,011,779	8,627,330
Jack Pine	9,323,089	15,995,905	12,484,841	15,114,368	12,831,439
White Pine	3,226,619	4,108,999	3,404,115	2,404,671	3,694,571
White Cedar	1,576,448	1,230,404	993,950	1,185,767	493,254
Scotch Pine	909,489	749,000	534,120	984,600	893,316
Silver Maple	555,712	348,982	648,797	514,600	584,853
Norway Spruce	378,791	421,825	324,549	387,904	902,881
Carolina Poplar	411,952	390,856	426,488	479,211	487,769
Black Walnut	348,925	272,730	323,364	360,775	341,587
White Ash	185,329	129,271	43,231	409,964	505,194
European Larch	268,045	227,610	124,545	180,502	154,055
Yellow Birch	228,805	271,723	409,925	160,400	205,827
Red Oak	203,785	309,149	366,199	160,208	398,192
Black Locust	143,800	81,875	155,577	145,708	212,583
Tamarack	41,025	414	110	9,450	28,238
Hemlock	48,551	95,342	115,161	118,049	130,456
Cottonwood	87,100	52,925	12,375	22,050	13,325
Hybrid Poplar					
Rooted	—	—	—	—	61,350
Unrooted	—	121,234	53,375	192,925	515,608
Japanese Larch	—	—	200,000	433,625	7,000
Other Species	494,997	368,973	394,392	529,265	451,182
Total	62,942,856	56,291,599	50,272,886	53,753,217	58,415,335

TREES SUPPLIED FOR PLANTING ON PRIVATE LANDS —

in years ending March 31

County or District	1975	1976	1977	1978	1979
Algoma	180,905	196,242	161,077	176,540	234,705
Brant	309,792	229,475	55,350	73,275	142,750
Bruce	148,850	149,225	256,350	110,675	119,385
Cochrane	1,400	2,225	245,675	277,750	482,720
Dufferin	342,780	221,422	253,185	232,335	325,915
Dundas	44,451	66,642	56,750	44,900	49,475
Durham**	225,480	179,450	103,150	286,345	378,775
Elgin	104,600	183,272	113,900	88,604	170,320
Essex	117,075	124,025	101,085	111,023	128,450
Frontenac	184,550	87,500	109,525	56,550	85,480
Glengary	145,495	85,750	100,483	75,175	71,025
Grey	398,150	453,772	436,245	381,255	453,124
Haldimand	138,900	356,792	236,315	102,245	241,075
Haliburton	70,450	26,775	38,725	24,450	45,125
Halton	291,125	193,550	132,625	180,910	105,225
Hastings	151,875	142,750	155,450	98,210	126,125
Huron	254,145	214,540	171,067	150,922	234,575
Kenora	275,950	137,550	89,050	415,675	374,400
Kent	172,100	86,900	63,175	87,500	135,500
Lambton	149,200	125,900	95,125	108,275	87,990
Lanark	114,255	134,825	56,425	98,000	67,137
Leeds & Grenville	195,470	165,565	261,545	146,133	139,589
Lennox & Addington	102,100	92,600	59,275	61,550	58,775
Manitoulin	13,100	3,900	8,200	11,150	10,550
Middlesex	336,408	300,945	205,005	204,306	231,282
Muskoka	85,775	31,100	46,900	36,550	86,800
Niagara	303,175	221,724	251,840	181,339	235,858
Nipissing	43,030	34,645	51,350	25,225	130,500
Norfolk	184,061	181	.....	102,000	2,610
Northumberland**	145,141	189,675	177,620	181,700	220,839
Ontario**	209,875	175,160	167,750	5,057	2,062
Ottawa-Carleton	224,257	173,958	158,442	164,392	101,225
Oxford	269,700	242,012	150,564	103,950	165,728
Parry Sound	137,075	81,350	94,500	78,650	147,275
Peel	354,980	339,621	294,448	136,630	233,487
Perth	116,382	159,350	79,425	122,545	83,198
Peterborough	126,569	102,011	113,507	113,338	228,231
Prescott	80,675	85,275	58,100	56,750	46,350
Prince Edward	48,800	43,561	56,675	55,200	75,070
Rainy River	36,900	84,075	72,550	200,350	51,625
Renfrew	372,450	248,275	236,275	212,728	339,094
Russell	89,150	79,575	81,550	63,476	61,600
Simcoe	697,295	686,825	517,491	606,435	837,865

**Totals do not reflect formation of the Regional Municipality of Durham.

County or District	1975	1976	1977	1978	1979
Stormont	27,945	26,100	32,410	33,785	36,225
Sudbury	122,050	237,150	156,800	305,700	254,612
Thunder Bay	181,525	118,776	113,700	98,191	141,875
Timiskaming	35,150	35,900	8,000	43,700	18,500
Victoria	89,305	49,121	121,131	103,549	154,615
Waterloo	174,025	115,725	95,625	71,900	118,450
Wellington	511,508	448,072	302,590	264,202	528,850
Wentworth	349,490	218,540	195,050	227,346	250,630
York	401,630	404,075	448,686	435,702	352,135
Durham Regional Municipality .....	.....	.....	.....	.....	300
Total	*9,886,524	*8,593,424	*7,647,726	*7,634,143	*9,405,081

*Excluding W.I.A.

FOREST AREAS MANAGED BY THE MINISTER —

in Acres at March 31, 1979

Agreement Holders	Date of Agreement	Added 1978-9	Released 1978-9	Total
GOVERNMENT OF CANADA				
National Capital Commission	Aug 16, 1961	.....	.....	3,532.00
23 CONSERVATION AUTHORITIES				
Ausable Bayfield	Dec 13, 1951	.....	.....	4,299.00
Cataraqui Region	Dec 1, 1971	.....	.....	844.00
Catfish Creek	Dec 19, 1962	.....	.....	501.00
Crowe Valley	Aug 21, 1963	.....	.....	200.00
Ganaraska	Jan 31, 1947	.....	.....	8,543.69
Grand River	Mar 18, 1952	.....	.....	5,839.87
Hamilton Region	Oct 19, 1962	.....	.....	12.50
Lakehead Region	May 15, 1958	.....	.....	1,244.20
Long Point Region	Dec 2, 1954	188.00	.....	6,382.65
Lower Thames Valley	Aug 12, 1964	.....	.....	300.00
Maitland Valley	Apr 1, 1955	.....	.....	849.00
Metropolitan Toronto & Region ..	Apr 11, 1951	.....	.....	1,967.68
Moira River	Nov 28, 1951	.....	.....	17,202.00
Napanee Region	Oct 28, 1954	.....	.....	6,666.00
Niagara Peninsula	Jun 6, 1963	.....	.....	186.00
North Grey Region	Jun 25, 1958	.....	.....	7,250.73
Otonabee Region	May 15, 1963	130.00	.....	3,533.00
Raisin Region	May 15, 1971	.....	.....	340.00
Sauble Valley	Sep 29, 1959	.....	.....	3,816.00
Saugeen Valley	Dec 15, 1952	.....	.....	14,067.97
South Nation River	Mar 28, 1960	.....	.....	6,941.58
St. Clair Region	Jul 13, 1965	.....	.....	150.00
Upper Thames River	Apr 11, 1951	.....	.....	3,443.32
Sub-Total		318.00	.....	94,580.19

Agreement Holders	Date of Agreement	Added 1978-9	Released 1978-9	Total
10 TOWNSHIPS				
Bonfield	Apr 1, 1952	.....	.....	60.00
Charlottenburgh	Apr 1, 1955	.....	.....	175.00
Cramahe	Jan 4, 1964	.....	.....	162.00
Cumberland	May 29, 1952	.....	.....	808.44
Darlington	Aug 19, 1964	.....	.....	140.00
Galway & Cavendish	Nov 1, 1952	.....	.....	619.00
Machar	Dec 30, 1963	.....	.....	90.00
Mosa	Jul 16, 1964	.....	.....	144.00
Torbolton	Mar 28, 1953	.....	.....	430.80
Williamsburg	Oct 19, 1962	.....	.....	400.00
Sub-Total .....	.....	.....	.....	3,029.24
19 COUNTIES				
Brant	Nov 15, 1952	.....	.....	57.24
Bruce	Jan 20, 1950	.....	.....	15,383.35
Dufferin	Nov 26, 1930	.....	.....	2,505.00
Grey	Dec 21, 1937	.....	.....	8,178.08
Huron	Nov 27, 1950	.....	.....	1,589.00
Kent	Dec 23, 1953	.....	.....	75.39
Lanark	Jul 5, 1940	.....	.....	8,528.00
Leeds & Grenville	Apr 24, 1940	.....	.....	13,473.00
Lennox & Addington	Apr 3, 1952	.....	.....	1,166.90
Middlesex	Mar 8, 1954	325.00	.....	2,268.00
Northumberland	Jun 10, 1924	.....	.....	5,102.34
Oxford	Sep 1, 1950	.....	.....	848.56
Peterborough	Jun 10, 1924	.....	.....	200.00
Prescott & Russell	Mar 15, 1937	.....	.....	26,041.93
Renfrew	Dec 26, 1951	.....	.....	15,544.01
Simcoe	Jun 19, 1952	103.36	.....	28,023.54
Stormont, Dundas & Glengarry	Sep 20, 1949	.....	.....	6,675.88
Victoria	Aug 10, 1928	.....	.....	8,642.43
Wellington	Jun 18, 1964	.....	.....	1,240.00
Sub-Total .....	.....	428.36	.....	145,542.65
6 REGIONAL MUNICIPALITIES				
Durham	Jul 9, 1930	.....	.....	2,647.30
Halton	Mar 14, 1950	.....	.....	1,498.63
Hamilton-Wentworth	Nov 27, 1952	.....	.....	980.95
Ottawa-Carleton	Jul 30, 1964	860.00	.....	10,671.00
Waterloo	Apr 17, 1950	.....	.....	718.70
York	Mar 27, 1924	20.30	.....	4,608.75
Sub-Total .....	.....	880.30	.....	21,425.33
TOTAL, 59 Managed Forest Areas .....	.....	1,626.66	.....	268,109.41

SILVICULTURAL OPERATIONS

Classification of cutover forest land in year ending March 31, 1979
 Areas in hectares (acres in light face)

Cutting Method	Available for Regeneration Treatment			Natural Regeneration Without Treatment		
	Crown	Patent	Total	Crown	Patent	Total
Clear Cut	69,706	5,812	75,518	32,342	3,558	35,900
	172,247	14,363	186,610	79,918	8,793	88,711
Selection Cut ..	.....	.....	.....	10,772	10,394	21,166
	.....	.....	.....	26,619	25,683	52,302
Partial Cut .....	.....	.....	.....	.....	.....	.....

Total	69,706	5,812	75,518	43,114	13,952	57,066
	172,247	14,363	186,610	106,537	34,476	141,013

Cutting Method	Not Available for Regeneration Treatment			Crown	Total Patent	Total
	Crown	Patent	Total			
Clear Cut	27,908	2,055	29,963	129,956	11,425	141,381
	68,961	5,079	74,040	321,126	28,235	349,361
Selection Cut ..	.....	.....	.....	10,772	10,394	21,166
	.....	.....	.....	26,619	25,683	52,302
Partial Cut	24,931	7,520	32,451	24,931	7,520	32,451
	61,605	18,582	80,187	61,605	18,582	80,187
Total	52,839	9,575	62,414	165,659	29,329	194,998
	130,566	23,661	154,227	409,350	72,500	481,850

SUMMARY OF SILVICULTURAL OPERATIONS

Areas in Hectares (Acres in light face) in year ending March 31, 1979

Treatment	Crown Land	Agreement Forests	WIA	Sub-Total	Other Patent Lands	Total
REGENERATION						
Planting						
Nursery stock	18,529	359	4,100	22,988	2,201	25,189
	45,785	887	10,132	56,804	5,438	62,242
Container stock	2,280	52	28	2,360	.....	2,360
	5,633	129	69	5,831	.....	5,831
Seeding	23,548	6	.....	23,554	28	23,582
	58,189	15	.....	58,204	70	58,274
Scarification	4,013	4	.....	4,017	.....	4,017
	9,917	10	.....	9,927	.....	9,927
Strip cutting	2,580	.....	.....	2,580	.....	2,580
	6,376	.....	.....	6,376	.....	6,376
Seed tree cutting	6,325	4	.....	6,329	.....	6,329
	15,630	11	.....	15,641	.....	15,641
Shelterwood cutting	10,669	158	157	10,984	87	11,071
	26,364	390	388	27,142	215	27,357
Clear cutting	2,771	145	.....	2,916	121	3,037
	6,847	359	.....	7,206	300	7,506
Sub-total	70,715	728	4,285	75,728	2,437	78,165
	174,741	1,801	10,589	187,131	6,023	193,154
RE-TREATMENT	3,435	91	820	4,346	.....	4,346
	8,487	224	2,027	10,738	.....	10,738
TENDING						
Hand Cleaning	4,855	660	357	5,872	.....	5,872
	11,998	1,630	881	14,509	.....	14,509
Herbicide spraying	16,955	459	1,249	18,663	2,050	20,713
	41,896	1,135	3,087	46,118	5,065	51,183
Thinning						
Improvement cuts	12,853	1,936	4,160	18,949	475	19,424
	31,761	4,785	10,280	46,826	1,174	48,000
Pruning	661	459	443	1,563	.....	1,563
	1,633	1,133	1,096	3,862	.....	3,862
Fertilization, Drainage	188	484	25	697	.....	697
	464	1,197	63	1,724	.....	1,724
Sub-total	35,512	3,988	6,234	45,744	2,525	48,269
	87,752	9,880	15,407	113,039	6,239	119,278
SITE PREPARATION	42,834	578	1,274	44,686	4	44,690
	105,846	1,428	3,147	110,421	10	110,431
MARKING	50,243	3,162	5,710	59,115	5,144	64,259
	124,153	7,814	14,111	146,078	12,711	158,789
Total Area Treated	202,739	8,557	18,323	229,619	10,110	239,729
	500,979	21,147	45,281	567,407	24,983	592,390

CROWN LANDS TREATED

Areas in hectares (acres in light face) in years ending March 31

Silvicultural Operations	1975	1976	1977	1978	1979
REGENERATION					
Planting					
Nursery stock	22,643	20,057	16,870	17,203	18,529
	55,952	49,561	41,687	42,509	45,875
Container stock	2,166	2,767	2,005	2,372	2,280
	5,353	6,837	4,955	5,860	5,633
Seeding	24,228	23,510	27,039	28,791	23,548
	59,869	58,095	66,814	71,145	58,189
Scarification	4,579	4,801	3,238	4,709	4,013
	11,314	11,862	8,002	11,637	9,917
Strip cutting	1,983	1,431	1,959	3,359	2,580
	4,899	3,536	4,840	8,301	6,376
Seed tree cutting	4,662	1,530	4,106	5,789	6,325
	11,519	3,781	10,147	14,304	15,630
Shelterwood cutting	5,654	7,149	7,938	8,234	10,669
	13,971	17,666	19,614	20,346	26,364
Clear cutting	419	1,021	1,203	2,125	2,771
	1,036	2,523	2,972	5,251	6,847
Total Regeneration	66,334	62,265	64,358	72,582	70,715
	163,913	153,861	159,031	179,353	174,741
Sub-total .....	.....	.....	.....	8,982	3,435
	.....	.....	.....	22,195	8,487
TENDING					
Hand cleaning	5,037	3,749	4,576	7,857	4,855
	12,446	9,265	11,308	19,417	11,988
Herbicide spraying	8,596	6,125	9,980	13,795	16,955
	21,241	15,136	24,661	34,089	41,896
Thinning, Improvement cuts	11,574	13,340	13,848	17,273	12,853
	28,600	32,964	34,218	42,683	31,761
Pruning	543	560	376	811	661
	1,341	1,385	928	2,003	1,633
Fertilization, Drainage	196	163	115	183	188
	485	404	283	451	464
Sub-total	25,946	23,937	28,895	39,919	35,512
	64,113	59,154	71,398	98,643	87,752
SITE PREPARATION					
	31,105	39,110	34,694	41,895	42,834
	76,863	96,642	85,730	103,525	105,846
MARKING	35,317	36,851	46,271	46,572	50,243
	87,269	91,061	114,338	115,082	124,153
Total Area Treated	158,702	162,163	174,218	209,950	202,739
	392,158	400,718	430,497	518,798	500,979

FOREST RESOURCES GROUP

TIMBER SALES BRANCH

Room W-3540, Main Office. Telephone (416) 965-2731.

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MANAGEMENT UNITS

Areas in square kilometres (square miles in light face) at March 31

Year	CROWN LAND FORESTS						AGREEMENT FORESTS	
	No.	Crown Area	No.	Area Company	No.	Area Total	No.	Area
1975	88	285,175.8 110,107.0	31	205,507.8 79,347.0	119	490,683.6 189,454.0	60	1,035.7 399.9
1976	88	272,588.5 105,247.0	31	218,095.1 84,207.0	119	490,683.6 189,454.0	60	1,036.0 400.0
1977	88	333,821.0 128,889.0	26	199,348.8 76,969.0	114	533,169.7 205,858.0	60	1,036.0 400.0
1978	88	333,821.0 128,889.0	26	199,348.8 76,969.0	114	533,169.7 205,858.0	60	1,064.5 411.0
1979	88	333,821.0 128,889.0	17	199,348.8 76,969.0	105	533,169.7 205,858.0	59	1,077.4 416.0

TIMBER LICENCES

Areas in square kilometres (square miles in light face) at March 31

Year	Under No.	Section 2 Area	Under No.	Section 3 Area	Under No.	Section 5 Area	Total No.	Licences Area
1975	45	726.5 280.5	424	251,031.5 96,923.8	11	133.9 51.7	480	251,891.9 97,256.0
1976	26	592.8 228.9	399	246,034.6 94,994.5	15	199.2 76.9	440	246,826.6 95,300.3
1977	31	584.3 225.6	395	254,387.3 98,219.5	14	160.6 62.0	440	255,132.2 98,507.1
1978	28	33.9 13.1	386	241,194.4 93,125.7	14	69.9 27.0	428	241,298.3 93,165.8
1979	44	39.1 15.1	415	239,531.2 92,483.5	19	96.3 37.2	478	239,666.6 92,535.8

MILL LICENCES

Type of Mill	1974	1975	1976	1977	1978
Saw Mills, 8-hour capacity					
Lumber over					
50M fbm	60	53	51	58	61
Lumber 10M to					
50M fbm	104	98	90	99	96
Lumber under					
10M fbm	570	569	547	588	602
Misc. Sawn Products	40	45	27	31	30
Saw Mills, Total	774	765	715	776	789
Veneer Mills	26	23	26	24	24
Pulp Mills	24	23	23	22	23
Total	824	811	764	822	836

TIMBER HARVESTED ON CROWN LANDS BY SPECIES

In cubic metres (000s cubic feet in light face) and \$000s in years ending March 31

Species	1975	1976	1977	1978	1979
SOFTWOOD					
Balsam	440,071	273,002	418,522	529,184	556,482
	15,541	9,641	14,780	18,688	19,652
Cedar	13,535	14,725	11,327	12,289	15,574
	478	520	400	434	550
Hemlock	34,093	47,091	53,434	58,049	73,397
	1,204	1,663	1,887	2,050	2,592
Jack Pine	4,370,585	2,726,398	3,823,306	5,010,884	5,086,830
	154,346	96,282	135,019	176,958	179,640
Red Pine	204,391	202,720	144,444	174,205	144,444
	7,218	7,159	5,101	6,152	5,101
Scots Pine		85			
		3			
White Pine	471,701	446,754	492,627	586,894	492,882
	16,658	15,777	17,397	20,726	17,406
Spruce	7,065,212	4,299,283	6,586,516	7,511,569	7,568,231
	249,506	151,828	232,601	265,269	267,270
Tamarack	4,672	2,152	2,832	1,926	2,152
	165	76	100	68	76
Mixed	4,219	19,369	2,237	7,079	6,683
	149	684	79	250	236
HARDWOOD					
Ash	850	1,076	1,274	1,303	1,727
	30	38	45	46	61
Basswood	7,787	6,485	6,000	7,759	11,100
	275	229	215	274	392
Beech	10,024	9,854	12,856	14,696	24,806
	354	348	454	519	876
White Birch	78,268	61,504	63,939	66,290	79,627
	2,764	2,172	2,258	2,341	2,812
Yellow Birch	113,947	123,320	122,838	111,115	111,851
	4,024	4,355	4,338	3,924	3,950
Butternut	28				28
	1				1
Cherry	538	736	595	821	1,133
	19	26	21	29	40
Elm	2,265	1,614	878	623	283
	80	57	31	22	10
Maple	234,123	221,466	258,844	241,344	270,454
	8,268	7,821	9,141	8,523	9,551
Oak	7,023	7,504	6,456	8,920	11,270
	248	265	228	315	398
Poplar	1,076,944	687,164	792,672	1,059,586	1,319,903
	38,032	24,267	27,993	37,419	46,612
Mixed	379,417	109,161	323,633	452,984	592,897
	13,399	3,855	11,429	15,997	20,938
TOTALS					
Softwoods	12,608,536	8,031,607	11,535,216	13,892,165	13,946,675
	445,267	283,634	407,363	490,598	492,523
Hardwoods	1,911,186	1,229,884	1,590,073	1,965,497	2,425,051
	67,493	43,433	56,153	69,411	85,640
Total	14,519,722	9,261,491	13,125,289	15,857,662	16,371,697
	512,760	327,067	463,516	560,009	578,162
Value*	\$27,166	\$19,425	\$26,788	\$32,357	\$35,919

*Export Levy not included.

Tree Species	Volume in Cubic Feet	Volume in Cubic Metres	Bonus	Crown Dues	Stampage Value
SOFTWOODS					
White Pine	17,406,237.68	492,889.82	\$ 632,229.40	\$ 1,182,379.73	\$ 1,814,609.13
Red Pine	5,100,588.51	144,432.60	150,527.12	343,373.56	520,136.94
Jack Pine	179,640,189.27	5,086,844.29	420,684.34	11,216,501.19	11,637,185.53
White Spruce	3,832,426.31	108,522.24	5,857.34	240,964.25	246,821.59
Black Spruce	25,090,319.34	710,478.81	32,970.28	1,528,397.10	1,561,367.38
Spruce, Mixed	238,346,843.63	6,749,231.82	784,422.97	15,106,167.21	15,890,590.18
Hemlock	2,592,333.44	73,406.72	26,409.87	178,406.72	204,816.59
Balsam	19,651,942.63	556,481.11	57,545.04	1,120,215.56	1,177,760.60
Cedar	550,067.58	15,576.18	15,542.57	33,546.63	49,089.20
Tamarack	75,719.10	2,144.13	149.71	4,801.39	4,951.10
Conifers	236,206.50	6,688.62	45.00	2,820.77	2,865.77
Total Softwoods	492,522,873.99	13,946,696.34	2,153,139.73	30,957,054.28	33,110,194.01
HARDWOODS					
Maple	9,550,570.14	270,442.06	231,222.74	675,040.14	906,262.88
Yellow Birch	3,949,557.14	111,839.02	188,940.49	307,270.88	496,211.37
White Birch	2,812,480.37	79,640.58	48,738.19	31,784.04	80,522.23
Oak	397,761.82	11,263.36	29,917.36	24,680.40	54,597.76
Beech	875,713.80	24,797.46	29,501.37	56,719.41	86,220.78
Ash	60,793.09	1,721.47	3,621.87	3,661.63	7,283.50
Elm	9,690.76	274.41	910.64	751.31	1,661.95
Basswood	391,724.24	11,092.40	24,326.45	22,346.96	46,673.41
Butternut	928.38	26.29	25.20	61.82	87.02
Ironwood	43.69	1.24		.54	.54
Cherry	40,286.21	1,140.78	1,797.33	2,911.36	4,708.69
Poplar	46,611,863.60	1,319,901.15	150,758.08	532,236.05	682,994.13
Hardwoods	20,938,455.87	592,911.11	205,411.84	236,156.88	441,568.72
Total Hardwoods	85,639,869.11	2,425,051.33	915,171.56	1,893,621.42	2,808,792.98
TOTAL	578,162,743.10	16,371,747.67	3,068,311.29	32,850,675.70	35,918,986.99

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT

in cubic metres (000s cubic feet in light face) in years ending March 31

Year	Cords			Cubic Feet			Foot Board Measure			Other	Total	Stumpage Value
	Softwood	Hardwood	Softwood	Cubic	Feet	Hardwood	Grade	1	Grade	2	Grade	3
1975	2,978,333	565,968	7,057,962	403,203	146,285	123,999	87,018	3,100,313	61,630*	14,542,796	\$27,166	
	105,179	19,987	249,250	14,239	5,166	4,379	3,073	109,313	2,173*		512,760	
1976	1,527,097	322,443	3,717,090	416,285	141,103	158,971	71,953	2,911,140		9,276,209	\$19,425	
	53,929	11,387	131,268	14,701	4,983	5,614	2,541	102,643			327,067	
1977	3,057,308	400,711	5,099,318	358,632	145,520	182,870	81,467	3,805,530		13,146,148	\$26,788	
	107,968	14,151	180,081	12,665	5,139	6,458	2,877	134,178			463,516	
1978	3,497,493	572,877	6,094,200	394,991	129,096	178,736	78,931	4,919,241		15,882,863	\$32,357	
	123,513	20,231	215,215	13,949	4,559	6,312	2,783	173,446			560,009	
1979	3,936,658	694,300	5,862,540	531,167	125,132	202,040	105,506	4,922,332		16,397,743	\$35,919	
	139,022	24,519	207,034	18,758	4,419	7,135	3,720	173,555			578,163	

*Note: Includes 60,554 cubic metres (2,138,449 cubic feet) of timber measured in net merchantable board foot measure during the month of April 1974. A new basis of measurement and an interim revision to Crown dues was implemented as of May 1, 1974.

N TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT AND TREE SPECIES

— in year ending March 31, 1979

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
CORDS, ROUGH					
White Pine	4,735.90	402,551.50	11,398.99	26,162.70	29,448.12
Red Pine	2,896.30	246,168.50	6,970.72	16,395.10	16,946.12
Jack Pine	589,084.82	50,072,204.04	1,417,887.09	3,099,588.31	3,212,783.46
Spruce, Mixed	722,270.86	61,393,028.68	1,738,457.18	3,827,899.32	4,016,483.74
Hemlock	85.95	7,305.75	206.88	363.17	1,101.29
Balsam	22,590.95	1,920,230.75	54,374.89	104,866.65	110,237.05
Cedar	2,677.39	228,044.35	6,457.50	14,055.97	14,782.45
Tamarack	672.25	57,141.25	1,618.06	3,726.67	3,735.84
White Birch	11,857.83	1,007,915.55	28,540.99	11,860.11	24,386.26
Oak .....	.21	17.85	0.51	.21	.42
Ash	16.20	1,377.00	38.99	15.30	16.07
Basswood	11.16	948.60	26.86	11.16	145.08
Poplar	187,460.27	15,934,122.95	451,204.17	184,600.72	224,617.05
Hardwoods, Mixed	6,401.56	544,133.50	15,408.14	6,455.85	32,599.96
Sub-Total	1,550,761.65	131,815,190.07	3,732,590.96	7,296,001.24	7,687,282.91
CORDS, PEELED					
Jack Pine	24,938.17	2,493,817.00	70,617.04	147,526.95	151,845.24
Spruce, Mixed	187,872.95	18,787,295.00	531,997.01	1,136,784.48	1,170,839.18
Balsam	31,779.71	3,177,971.00	89,990.13	101,093.34	107,788.57
Poplar	6,395.89	639,201.25	18,100.17	7,380.35	8,541.49
Sub-Total	250,986.72	25,098,284.25	710,704.35	1,392,785.12	1,439,014.48

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
CUBIC FEET					
White Pine	12,993,515.13	13,108,881.57	371,202.23	884,178.75	1,414,427.63
Red Pine	3,213,863.38	3,310,936.30	93,755.29	220,471.85	360,757.42
Jack Pine	66,120,981.33	66,253,758.45	1,876,097.74	4,124,891.49	4,290,891.17
White Spruce	3,832,426.31	3,832,426.31	108,522.24	240,964.25	246,821.59
Black Spruce	25,090,319.34	25,090,319.34	710,478.81	1,528,397.10	1,561,367.38
Spruce, Mixed	82,389,744.53	82,803,544.01	2,344,735.54	5,273,875.63	5,590,654.43
Hemlock	2,327,245.05	2,327,245.05	65,900.25	159,692.97	181,728.39
Balsam	9,930,660.21	9,966,218.25	282,211.91	605,150.62	637,869.99
Cedar	280,530.59	322,023.23	9,118.68	19,490.66	34,306.75
Tamarack	15,867.17	18,577.85	526.07	1,074.72	1,215.26
White Birch	1,800,314.82	1,800,314.82	50,979.24	19,870.54	56,082.58
Poplar	16,933,931.46	16,957,485.90	480,182.58	192,224.85	272,203.32
Sub-Total	224,929,399.32	225,791,731.08	6,393,710.58	13,270,283.43	14,648,325.91
BOARD FOOT MEASURE, GRADE 1					
Maple	16,898.02	2,687,528.86	76,102.35	354,829.37	447,859.96
Yellow Birch	8,472.51	1,299,336.06	36,793.10	177,443.81	260,352.39
Oak	718.67	117,281.04	3,321.03	14,897.02	23,388.61
Beech	1,218.89	197,367.30	5,588.82	25,534.54	35,876.14
Ash	85.47	14,033.21	397.38	1,790.48	2,738.87
Elm	18.60	2,958.82	83.78	385.43	817.76
Basswood	540.57	89,736.10	2,541.04	11,313.21	17,953.05
Butternut	1.95	318.18	9.01	38.60	49.84
Cherry	64.50	10,201.55	288.88	1,360.86	2,354.84
Sub-Total	28,019.18	4,418,761.12	125,125.40	587,593.32	791,391.46

	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
BOARD FOOT MEASURE, GRADE 2					
Maple	27,886.81	4,547,797.98	128,779.31	293,065.69	403,825.81
Yellow Birch	11,360.41	1,794,969.30	50,827.88	119,491.71	223,404.18
Oak	785.15	133,553.03	3,781.80	8,146.12	17,376.86
Beech	2,735.71	452,993.77	12,827.36	28,602.59	40,624.38
Ash	155.26	26,145.03	740.34	1,636.43	2,975.59
Elm	33.52	5,318.68	150.61	349.28	758.91
Basswood	887.15	151,335.71	4,285.35	9,347.98	18,661.26
Butternut	2.01	344.16	9.75	20.19	31.72
Cherry	138.06	22,541.67	638.31	1,459.79	2,154.75
Sub-Total	43,984.08	7,134,999.33	202,040.71	462,119.78	709,813.46
BOARD FOOT MEASURE, GRADE 3					
Maple	12,956.27	2,315,243.30	65,560.40	27,145.08	54,577.11
Yellow Birch	4,929.70	855,251.78	24,218.04	10,335.36	12,454.80
Oak	797.29	146,909.90	4,160.03	1,637.05	13,831.87
Beech	1,241.03	224,842.73	6,366.84	2,576.80	9,713.28
Ash	103.61	19,237.85	544.76	219.42	1,552.97
Elm	7.63	1,413.26	40.02	16.60	85.28
Basswood	809.85	149,703.83	4,239.14	1,674.61	9,914.02
Butternut	1.48	266.04	7.53	3.03	5.46
Ironwood	.24	43.69	1.24	.54	.54
Cherry	42.30	7,542.99	213.59	90.71	199.10
Sub-Total	20,889.40	3,720,455.37	105,351.58	43,699.20	102,334.43

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
WEIGHED WOOD					
White Pine	2,492,674.91	3,894,804.61	110,288.60	272,038.28	370,733.38
Red Pine	987,829.57	1,543,483.71	43,706.60	105,986.78	142,433.40
Jack Pine	33,755,327.39	60,820,409.78	1,722,242.42	3,844,494.44	3,981,665.66
Spruce, Mixed	41,826,447.30	75,362,975.94	2,134,042.09	4,867,607.78	5,112,612.83
Hemlock	183,025.68	257,782.64	7,299.59	18,350.58	21,986.91
Balsam	2,798,388.41	4,587,522.63	129,904.19	309,104.95	321,864.99
Poplar	9,095,766.58	13,081,461.12	370,425.77	148,035.02	177,637.16
Hardwoods, Mixed	10,505,280.49	14,007,040.65	396,635.27	155,033.74	218,594.08
Sub-Total	101,644,740.33	173,555,481.08	4,914,544.52	9,720,651.57	10,347,528.41
FUELWOOD, CORDS					
Conifers	2,773.27	236,206.50	6,688.62	2,820.77	2,865.77
Hardwoods, Mixed	74,825.47	6,391,634.30	180,990.95	74,721.27	190,430.16
Sub-Total	77,598.74	6,627,840.80	187,679.57	77,542.04	193,295.93
TOTAL CROWN TIMBER HARVESTED					
	578,162,743.10	16,371,747.67	\$32,850,675.70	\$35,918,986.99	

Number of District Cutting Licences issued and included above: 9,774.

PRINCIPAL STATISTICS OF ONTARIO'S FOREST INDUSTRY BY SECTOR

Source: Statistics Canada

Sector	Year	Establishments No.	Employees No.	Salaries and Wages \$'000s	Fuel and Electricity \$'000s	Materials and Supplies \$'000s	Value of Shipments \$'000s	Value Added \$'000s
	1973							
Logging		400	8,983	98,699	8,131	113,766	254,794	145,762
Wood Industries		727	20,598	153,863	10,667	271,244	580,816	309,800
Paper and Allied		289	45,391	436,484	75,145	861,170	1,748,335	822,197
Total		1,416	74,972	689,046	93,943	1,346,180	2,583,945	1,277,759
Furniture and Fixtures*		455	21,625	162,417	3,998	260,117	531,255	287,055
	1974							
Logging		380	9,673	121,454	11,329	150,366	326,247	188,240
Wood Industries		740	20,507	173,683	13,095	314,463	636,670	337,486
Paper and Allied		294	47,404	512,825	93,673	1,175,921	2,429,138	1,221,616
Total		1,414	77,584	807,964	118,097	1,640,750	3,392,055	1,747,342
Furniture and Fixtures*		502	23,174	195,519	5,072	320,691	634,487	333,245
	1975							
Logging		328	8,028	111,940	9,724	150,098	302,702	176,263
Wood Industries		726	19,284	185,822	12,975	340,021	638,441	306,896
Paper and Allied		302	45,178	497,083	93,261	1,064,969	2,126,441	999,360
Total		1,356	72,490	794,845	115,960	1,555,088	3,067,584	1,482,519
Furniture and Fixtures*		490	22,362	206,750	5,590	302,961	641,845	342,969
	1976							
Logging		269	7,694	126,888	11,014	153,503	353,893	196,735
Wood Industries		683	19,868	212,309	17,561	386,944	734,319	343,414
Paper & Allied		301	45,645	612,501	145,410	1,291,516	2,459,739	1,083,376
Total		1,253	73,207	951,698	173,985	1,831,963	3,547,951	1,623,525
Furniture and Fixtures*		470	21,712	226,778	6,781	350,314	707,781	371,375
	1977							
Logging		246	8,447	153,309	12,539	188,298	435,323	231,149
Wood Industries		645	20,110	242,641	22,715	447,267	870,023	410,509
Paper & Allied		287	43,488	681,113	197,186	1,440,021	2,826,617	1,207,415
Total		1,178	72,045	1,077,063	232,440	2,075,586	4,131,963	1,849,073
Furniture and Fixtures*		455	20,078	222,317	7,734	337,931	709,599	327,554

* Does not include furniture upholstery, re-upholstery and repair shops.

MINERAL RESOURCES GROUP *

Room W-6341, Main Office. Telephone (416) 965-4271.

Executive Co-ordinator	G. A. Jewett	W-6341 4271
Secretary	Mrs. P. Barchuk	W-6341 4271
Head, Planning and Administration	L. M. Keith	R-811 5484
Financial Officer	H. E. Cook	R-810 2461

ONTARIO GEOLOGICAL SURVEY

Room 1121, 77 Grenville St., Toronto, Ont. M5S 1B3. Telephone (416) 965-1283.

Survey Director	Dr. E. G. Pye	R-1121 1283
Precambrian Geology Section	Dr. V. G. Milne, Spvr.	R-914 1321
North Archaen Group	P. C. Thurston	R-923 1827
Central Archaen Group	W. O. Mackasey	R-906 4817
South Archaen Group	Dr. D. R. Pyke	R-916 1827
Proterozoic Group	(to be appointed)	
Engineering & Terrain Geology Section	Dr. O. L. White	R-707 1182
Paleozoic Group	Dr. P. G. Telford	R-706 1182
Quaternary Group	Dr. W. R. Cowan	R-705 1182
Geophysics—Geochemistry Section	R. B. Barlow, Spvr.	R-708 1697
Mineral Deposits Section	J. A. Robertson, Spvr.	R-1119 1466
Geoservices Section	Dr. M. F. Walmsley, Spvr.	R-912 5601
Geoscience Data Centre	H. A. Groen	R-804 4641
Assessment Files Research	R. C. Owen	R-819 6139
Geoscience Information	E. B. Freeman	R-807 0190
Scientific Review	Mrs. G. M. Scott	R-724 4536
Geoscience Laboratories	Dr. A. E. Pitts	R-1117 1337
Mines Library	N. Thurston	R-812 1352
Geoscience Research Grant Program	C. M. Collins	R-1120 1310
Mineral Exploration Assistance Program	S. V. Burr	R-808 5503

*See Mining Lands and Prospecting Activities under Lands Administration Branch

MINERAL EXPLORATION ASSISTANCE PROGRAM (MEAP)

Summary of Approved Expenditures* in years ending March 31. Totals from April 1, 1971.**

AREA	1976	1977	1978	1979	Area Total
COBALT-GOWGANDA	\$ 135,736	\$ 164,274	\$ 287,723	\$ 304,076	\$ 2,217,239
Company Expenditures	135,736	164,274	287,723	304,076	2,217,239
Government Payments	43,986	49,667	95,785	100,430	642,487
GERALDTON-BEARDMORE					
Company Expenditures	164,882	159,555	2,808	53,053	1,465,893
Government Payments	47,763	50,237	936	17,684	448,304
KIRKLAND LAKE					
Company Expenditures	79,989	173,634	258,535	442,091	2,064,413
Government Payments	20,640	57,676	85,860	146,538	646,421
RED LAKE					
Company Expenditures	232,090	143,707	236,149	203,982	1,883,903
Government Payments	76,350	43,425	73,585	67,991	582,183
ATIKOKAN**					
Company Expenditures	96,363	294,545	211,171	110,047	745,817
Government Payments	32,121	97,134	69,355	33,333	243,174
EASTERN ONTARIO**					
Company Expenditures	239,438	344,645	403,753	172,827	1,160,663
Government Payments	75,540	105,381	120,341	69,491	370,753
TOTAL					
Company Expenditures	948,498	1,280,360	1,400,139	1,286,076	9,537,928
Government Payments	296,400	403,531	445,863	435,467	2,983,322

*Under MEAP, the Government reimburses a company or individual one-third of the cost of an approved exploration expenditure up to a maximum of \$33,333.33. Approved company expenditures do not necessarily reflect the total company costs on MEAP projects.

**Atikokan began in 1974. Eastern Ontario began in 1975.

ASSESSMENT FILES RESEARCH OFFICE

Office Operations	1974	1975	1976	1977	1978	1946-78
FILES ADDED						
Technical Surveys and Summaries for Assessment Credit	300	277	240	240	300	6,214
MEAP	50	31	56	45	50	387
Ontario Securities						
Commission and Misc.	60	56	81	48	25	503
Drilling Reports	335	500	400	300	320	8,381
OPERATIONS						
Enquiries	4,416	2,821	2,685	3,460	3,527	.....
Files Examined	9,216	15,277	14,702	14,520	14,343	.....
Control Maps Examined	5,962	7,389	8,932	7,141	6,569	.....

LIST OF FIELD PARTIES

Ontario Geological Survey, 1978

No.	Location	Leaders
PRECAMBRIAN GEOLOGY SECTION		
1. Slate Falls Area		H. Wallace
2. Birch Lake Area		P. C. Thurston
3. Ranger-Heyson Townships Area		J. Pirie
4. Red Lake (synoptic study)		J. Pirie
5. Uranium reconnaissance (West Patricia)		F. W. Breaks
6. Savant Lake-Crown Lake Special Project		W. D. Bond
7. Zarn Lake Area		N. F. Trowell
8. Howard Falls Area		C. E. Blackburn
9. Radioactive Diatremes north of Lake Superior		R. O. Page
10. Stratigraphy & Structure, Kirkland Lake-Larder Lake Area		S. E. Amukun
11. Timmins Matachewan Area Regional Study		R. P. Sage
12. Burntbush-Detour Lakes Area		L. S. Jensen
13. Benton-Mallard Townships Area		D. R. Pyke
14. Hemlo Area		G. W. Johns
15. Grey Owl Lake Area		G. M. Siragusa
16. Lake Matchinameigus Area		T. L. Muir
17. McFadden-Rattray Townships Area		E. C. Grunsky
18. Huronian Volcanism, Sault Ste. Marie-Sudbury Area		M. J. Downes
19. Lake Wanapetei Area		Z. L. Mandziuk
20. Cobalt Area Reconnaissance Survey		G. Bennett
21. Long Lake Area		B. O. Dressler
22. Khartum Area		J. Wood
23. Southern Renfrew County Area		J. M. Wolff
24. Harvey Township		S. G. Themistocleous
		S. B. Lumbers
		R. L. Morton
ENGINEERING AND TERRAIN GEOLOGY SECTION		
25. Kincardine Area		W. R. Cowan
26. Markdale Area (east half)		B. H. Feenstra
27. Lucan Area		E. V. Sado
28. Hamilton-Cambridge Area		P. F. Karrow
29. Markham Area		J. A. Westgate
30. Golden Lake-Brudenell Areas		P. J. Barnett
31. Gravenhurst-Bracebridge-Huntsville Area		D. R. Sharpe
32. Englehart Area		J. D. Morton
33. New Liskeard Area		J. D. Morton
34. Larder Lake Area		C. L. Baker
35. Nakina-Onaman Lake Area Aggregate Deposits		E. V. Sado
36. Red Lake-Sioux Lookout Area Aggregate Deposits		V. K. Prest
37. Northern Ontario Engineering Geology Terrain Study		J. F. Gartner
38. Physiography of the Hudson Bay Lowland		A. J. Cooper
39. Smoky Falls Area, James Bay Lowlands		H. M. Verma
		P. G. Telford

GEOPHYSICS/GEOCHEMISTRY SECTION

40. Federal-Provincial Uranium Reconnaissance	R. B. Barlow
41. Red Lake-Birch Lake Gravity Study	V. K. Gupta
42. Red Lake Area Airborne EM Survey	D. R. Wadge

MINERAL DEPOSITS SECTION

43. Mineral Resource Studies in the Pembroke-Renfrew Area	J. B. Gordon
44. Uranium Deposits of Ontario	A. C. Colvine
45. Sudbury Area Industrial Minerals	M. A. Vos
46. Timmins Area Volcanogenic Gold Mineralization	J. A. Robertson
47. Atikokan Area Mineral Deposits	B. A. Smith
48. Coldwell Alkalic Complex Sulphide Mineralization	M. A. Vos
49. Early Precambrian Porphyry Deposits	J. A. Fyon
50. Nickel Deposits of Ontario	W. O. Karvinen
51. Newton Township Ultramafic and Tholeiitic Rocks	W. McRae
52. Chromium Deposits of Ontario	S. Wilkinson
53. NE Ontario, Quantitative Analysis of Mineralization	A. C. Colvine
	A. C. Colvine
	D. G. Innes
	J. Birch
	D. G. Innes
	P. J. Whittaker
	P. A. Umar

GEOSCIENCE RESEARCH GRANT PROGRAM

Summary of proposals and expenditures in year ending March 31
 R — Received. A — Accepted.

Universities	1979	
Proposals	R	A
Brock	2	1
Carleton	6	4
Guelph	1	1
Lakehead	0	0
Laurentian	3	1
McMaster	1	0
Ottawa	4	2
Queen's	3	1
Toronto	16	8
Waterloo	4	2
Western	5	2
Windsor	2	2
York	1	0
Total	48	24
Expenditures	\$401,153	

MINERAL RESOURCES GROUP

MINERAL RESOURCES BRANCH

4th Floor, Section Six, Main Office.

Telephone (416) 965-1559.

Branch Director
Mining Tax Assessment Section
Mineral Statistics Section
Metallic Minerals Section
Industrial Minerals Section

Dr. T. P. Mohide	1559
Mine Assessor	4594
G. Weatherson, Spvr.	0211
Dr. G. Anders, Spvr.	1311
S. E. Yundt, Spvr.	1172

ONTARIO MINERAL PRODUCTION IN 1977 and 1978

1977 figures show final completion of shipments.
1978 figures are preliminary.

.....Figures not available.
—Nil.

METALLIC MINERALS	Unit	Quantity	1977	Value \$	Quantity 000s	1978	Value \$000s
Cadmium	kg	603,044	4,187,878		453		2,788
	lb	1,329,485			998		
Calcium	kg	490,856	1,801,506		588		2,708
	lb	1,082,152			1,296		
Cobalt	kg	1,263,042	16,052,589		904		19,562
	lb	2,784,530			1,992		
Copper	kg	279,936,482	427,980,593		194,340		318,807
	lb	617,154,302			428,447		
Gold	g	22,989,264	116,107,936		22,052		156,490
	oz	739,122			709		
Iron Ore	t	10,319,657	287,810,755		9,425		295,437
	st	11,375,475			10,389		
Lead	kg	8,138,358	5,648,504		6,570		5,333
	lb	17,942,009			14,484		
Magnesium	kg	7,632,646	17,766,569		8,269		19,638
	lb	16,827,104			18,231		
Nickel	kg	179,994,848	927,518,355		97,396		489,616
	lb	396,820,713			214,721		
Platinum Group	g	14,474,687	61,988,406		8,678		55,672
	oz	465,372			279		
Selenium	kg	53,149	2,128,700		31		1,188
	lb	117,174			69		
Silver	kg	524,319	82,937,621		421		83,382
	oz	16,857,240			13,529		
Tellurium	kg	8,075	325,367		5		267
	lb	17,802			12		
Tin	kg	140,506	1,633,889		111		1,790
	lb	309,763			245		
Uranium (U_3O_8)	kg	4,278,133	250,688,679		5,252		341,097
	lb	9,431,669			11,578		
Yttrium (Y_2O_3)	kg	.....	.....	.....	.....	.....	.....
	lb	.....	.....	.....	.....	.....	.....
Zinc	kg	295,419,602	231,409,401		254,873		195,299
	lb	651,288,737			561,899		
Total Value, Metallic			\$2,435,986,748				\$1,989,074

NON-METALLICS	Unit	Quantity	1977	Value \$	Quantity 000s	1978	Value \$000s
Arsenious oxide	kg	.....	.....	.....	.....	.....	.....
	lb	.....	.....	.....	.....	.....	.....
Asbestos	t	6,625	730,300		—		—
	st	7,303			—		—
Barite	t	.....	375,000		.....		380
	st	.....			.....
Gemstones	kg	.....	89,530		.....		110
	lb	.....			.....

Gypsum	t	699,390	3,991,126	724	4,209
	st	770,946		798	
Nepheline Syenite	t	574,558	11,983,799	579	13,100
	st	633,342		638	
Peat	t	6,700	607,736	7	664
	st	7,386		8	
Quartz	t	1,043,066	6,128,927	767	5,961
	st	1,149,783		846	
Salt	t	4,586,491	57,141,078	4,674	66,495
	st	5,055,741		5,152	
Serpentine	t	.....	.....	.....	.....
	st	.....	.....	.....	.....
Soapstone, Talc,					
Pyrophyllite	t	.....	660,189	.....	1,097
	st	.....		.....
Sulphur in smelter					
gas	t	377,605	7,929,334	269	5,458
	st	416,238		297	
Sulphur, elemental	t	183	5,355	.....	7
	st	202		.....

STRUCTURAL MATERIALS	Unit	Quantity	1977	Value \$	Quantity 000s	1978	Value \$000s
Clay products	n/a			53,784,270			57,655
	n/a						
Cement	t	3,647,304		138,795,199		3,942	156,420
	st	4,020,465				4,345	
Lime	t	1,203,823		39,971,386		1,387	48,922
	st	1,326,988				1,529	
Sand & Gravel	t	75,400,390		121,775,893		79,832	132,000
	st	83,114,703				88,000	
Stone	t	28,869,132		77,884,277		30,481	87,360
	st	21,822,771				33,600	

**Total Value,
Structural Materials** \$432 211 025 \$482 357

FUELS	Unit	Quantity	1977	Value \$	Quantity 000s	1978	Value \$000s
Natural gas	m ³	241,523,000		10,267,000		310,700	19,194
	Mcf	8,526,000				10,968	
Petroleum, crude	m ³	98,047		6,627,000		94	7,246
	bbl	617,000				592	
Total Value Fuels				\$16,894,000			\$26,440

ONTARIO MINERAL PRODUCTION TOTAL VALUE

\$2,974,734.147

\$2,595,352

VALUE OF ONTARIO MINERAL OUTPUT BY PLANNING REGIONS*

Planning Regions	1975	1976	1977
	\$	\$	\$
NORTHEASTERN REGION			
Metallic minerals	1,566,844,415	1,629,608,937	1,969,595,244
Non-metallic minerals	10,220,848	16,944,435	14,579,799
Structural materials	12,289,972	13,174,466	17,082,258
Total	1,589,355,235	1,659,727,838	2,001,257,301
NORTHWESTERN REGION			
Metallic minerals	360,047,415	379,579,485	434,419,503
Non-metallic minerals	425,526	706,502	646,542
Structural materials	3,414,109	7,781,078	9,167,464
Total	363,887,050	388,067,065	444,233,509
CENTRAL REGION			
Natural gas, petroleum	2,505,366	2,533,495	4,955,277
Non-metallic minerals	12,489,154	13,900,156	16,554,132
Structural materials	187,341,663	207,374,997	219,325,244
Total	202,336,183	223,808,648	240,834,653
EASTERN REGION			
Metallic minerals	22,074,359	27,378,820	31,972,001
Non-metallic minerals	785,159	692,480	715,468
Structural materials	59,085,287	70,143,241	82,482,902
Total	81,944,805	98,214,541	115,170,371
SOUTHWESTERN REGION			
Natural gas, petroleum	9,048,634	7,542,505	11,938,723
Non-metallic minerals	32,265,317	52,496,998	57,146,433
Structural materials	78,452,142	92,975,969	104,153,157
Total	119,766,093	153,015,472	173,238,313
ONTARIO TOTAL	2,357,289,366	2,522,833,564	2,974,734,147

*Based on Municipal Directory, 1979.

ONTARIO CRUDE OIL

Production in cubic metres and barrels

Year		Annual m ³	Annual bbl	Cumulative from 1863 m ³	Cumulative from 1863 bbl
1974	.....	116,650	734,068	8,379,540	52,731,614
1975	.....	111,923	704,323	8,491,463	53,435,937
1976	.....	98,763	621,508	8,590,226	54,057,445
1977	.....	98,047	617,000	8,688,273	54,674,445
1978*	.....	94,074	592,000	8,782,347	55,266,445

ONTARIO NATURAL GAS

Production in cubic metres and cubic feet

Year		Annual 000s m ³	Annual 000s cf	Cumulative from 1890 000s m ³	Cumulative from 1890 000s cf
1974	.....	213,505	7,536,953	22,068,556	779,041,806
1975	.....	309,778	10,935,471	22,378,334	789,977,277
1976	.....	140,438	4,957,616	22,518,772	794,934,893
1977	.....	241,523	8,526,000	22,760,295	803,460,893
1978*	.....	310,700	10,968,000	23,070,995	814,428,893

*Preliminary.

EMPLOYMENT IN ONTARIO MINING INDUSTRY

Year	Mines	Quarries	Clay Gravel Sand	Contractors and Diamond Drilling	Sub Total	Metal- lurgical	Total
1973	25,734	1,596	3,602	481	31,413	12,673	44,086
1974	26,785	1,650	3,375	394	32,204	12,456	44,660
1975	29,102	1,722	3,855	422	35,101	12,095	47,196
1976	29,335	1,898	3,996	338	35,567	12,302	47,869
1977	29,438	*1,950	*4,000	304	35,692	12,119	47,811

OUTDOOR RECREATION GROUP

Room W-2340, Main Office.

Telephone (416) 965-5661.

Executive Co-ordinator	L. H. Eeckel	W-2341 5661
Secretary	Miss N. Nishi	W-2340 5661
Administration	P. S. King	W-2342 5661
Program Analyst	M. Slusarenko	W-2342 5661
Enforcement Specialist	C. D. Copeland	W-3328 3377
Box 346, Kemptville, Ont. K0G 1J0		
CORTS Agreement Board, Chairman ..	T. W. Hueston	(613) 258-3413
340 George St. North, Suite 210,		
Peterborough, Ont. K9H 7E8		
CORTS Secretariat, Director	P. Wyatt	(705) 743-9311
Chief Technical Officer	P. White	9311
Administration	Mrs. H. Gifford	9311
Environmental Studies, U. of		
Waterloo, Waterloo, Ont. N2L 3G1		
Provincial Parks Council, Chairman ..	Dr. G. Priddle	(519) 885-1211

WILDLIFE BRANCH

Room W-2320, Main Office.

Telephone (416) 965-4251.

Branch Director	J. D. Roseborough	W-2327 4254
Program Development & Audit Section	D. A. Hagan, Spvr	W-2321 4251
Habitat Development Coord	D. L. Euler	W-2323 4251
Moose/Caribou Program Coord	R. A. Stefanski	W-2331 4251
Upland Game/Waterfowl Prgm Coord	J. L. Harcus	W-2332 4251
Deer/Bear Program Coord	M. C. Smith	W-2330 4251
Non-game Program Coord	I. E. Bowman	W-2325 4251
Commercial Wildlife Program Coord	M. Novak	W-2423 3345
Policy Development Section	L. J. Post, Spvr	W-2306 7641
Recreational Wildlife P. Officer	(vacant)	W-2309 7641
Commercial Wildlife P. Officer	(vacant)	7641
Environmental Wildlife P. Officer	L. Whistance-Smith	W-2307 7641
Extension, Development and		
Services Section	(vacant)	W-2326 4251
Extension Program Coord	(vacant)	W-2322 4251
Central Wildlife Services Section	J. A. Shannon, Spvr	W-2328 4251
Hunter Education Coord	W. M. McKittrick	W-2333 4251
Information Data System Coord	J. M. Barbowski	W-2311 7054
Northern Policy Development Section	R. O. Standfield, Spvr	W-2304 7641
Resource Development Coord	W. C. Currie	W-2302 7641
Resource Development Coord	(vacant)	W-2301 7641
Box 50, Maple, Ont. L0J 1E0.	Telephone (416) 832-2761.	
Wildlife Research Section	C. D. MacInnes, Spvr	Extension 241
Deer Study Scientist	R. L. Hepburn	Extension 241
Ungulate Behavior Scientist	A. B. Bubenik	Extension 241
Bio-Electronic Scientist	J. S. Lotimer	Extension 241
Moose Unit Scientist	D. G. Fraser	Extension 241
Rabies Unit Leader	D. H. Johnston	Extension 241
Upland Game/Waterfowl Scientist ..	H. G. Lumsden	Extension 241
Predator Scientist	G. B. Kolenosky	Extension 241
Disease/Parasitor Scientist	E. M. Addison	Extension 241

HUNTING STATISTICS — Estimates compiled from hunters surveyed by mail

Comparison between hunter numbers and licence sales (see Page 38) gives an estimate of the number of licence holders who did not hunt.

MOOSE

Year	RESIDENT			NON-RESIDENT			TOTALS	
	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days
1973	74,240	637,800	9,770	16,990	130,100	3,800	91,230	767,900
1974	75,370	630,300	10,510	16,850	121,900	3,400	92,220	752,100
1975	74,320	595,300	9,800	7,800	59,200	1,510	82,210	654,500
1976	75,670	543,200	9,420	7,770	55,400	1,450	83,440	598,600
1977	66,240	470,000	7,730	6,280	45,000	1,290	72,550	515,700
								9,020

DEER

Year	RESIDENT			NON-RESIDENT			TOTALS	
	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days
1973	82,390	462,300	15,140	4,930	27,900	*1,530	87,320	490,200
1974	80,380	487,100	12,530	3,990	23,600	*1,050	84,370	487,100
1975	82,030	442,900	11,740	3,010	16,400	*830	85,040	459,300
1976	78,250	433,900	14,180	3,240	16,700	*930	81,490	450,600
1977	85,840	433,200	13,510	2,720	14,300	*810	88,200	447,500
								*14,310

BEAR***

Year	RESIDENT			NON-RESIDENT			TOTALS	
	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunter Days	Harvest
1971	1,030	6,800	.....	9,010	48,400	.....	10,040	55,200
1972	1,120	7,400	6,330	9,300	49,500	2,620	10,420	56,900
1973	1,220	12,900	3,680	9,140	62,200	2,120	10,360	75,100
1974	1,140	6,200	1,950	9,500	52,100	1,680	10,640	58,300
1975	1,220	6,900	1,870	9,030	56,800	1,760	10,250	63,700
								3,630

SMALL GAME**

Year	RESIDENT			NON-RESIDENT			SUMMER HUNTING		RESIDENT	
	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Year	Hunters	Hunter Days	
1971	267,870	3,842,500	8,450	80,000	.....	.....	1972	18,720	369,500
1972	236,460	3,647,000	.....	.....	.....	.....	1974	16,380	291,800
1973	247,240	3,356,000	7,960	57,700	.....	.....	1975	16,170	246,800
1974	225,840	3,299,000	7,380	52,100	.....	.....		
1976	242,310	3,388,000	8,530	62,300	.....	.....		

* Includes deer harvested on moose licences.

** Includes waterfowl.

*** Estimates of number of hunters and hunter-days are based on bear licences only
Harvest includes bear harvested on moose-bear, deer-bear and moose licences.

EXPENDITURE BY HUNTERS — (Excluding Licence Fees)

Survey Year*	Hunt	Estimates Resident	Compiled from Non-Resident	Surveyed by Mail
				Total
1972-73	Bear	\$ 199,000	\$ 2,077,000	\$ 2,276,000
1973-74	Bear	255,000	2,336,000	2,591,000
1973-74	Small Game	44,323,000	2,458,000	46,781,000
1974-75	Small Game .....	.....	3,557,000	3,557,000
1973-74	Deer	9,432,000	1,243,000	10,675,000
1973-74	Moose	13,791,000	6,070,000	19,861,000
1976-77	Moose	17,821,000	3,192,000	21,013,000
1976-77	Deer	12,000,000	809,000	12,809,000
1976-77	Small Game	53,561,000	3,252,000	56,813,000

HUNTING LICENCES SOLD

Year	DEER		MOOSE		BEAR	
	Resident	Non-Res	Resident	Non-Res	Resident	Non-Res
1974	89,149	4,907	83,921	15,614	1,443	8,484
1975	91,490	4,617	82,750	7,934	1,585	9,115
1976	86,641	5,017	83,618	7,897	1,869	9,325
1977	95,114	4,501	74,834	6,392	1,872	8,977
1978	97,477	4,453	87,751	7,186	2,672	10,477

Year	SMALL GAME		Resident	Non-Resident	TOTAL	Total
	Resident	Non-Res				
1974	369,624	7,939	544,137	36,944	581,081	
1975	388,065	8,752	563,890	30,418	594,308	
1976	384,021	9,046	556,149	31,285	587,434	
1977	389,014	9,225	569,834	29,095	589,929	
1978	399,943	9,651	587,643	31,767	619,410	

LAND ACQUISITIONS FOR WILDLIFE MANAGEMENT

LAW ENFORCEMENT

Seizures and convictions
in years ending March 31

Year	Areas in years ending March 31					
	Seizures	Convct	Year	Hectares	Acres	Cost
1974	5,056	4,510	1972	1,871	4,620	\$903,259
1975	4,976	5,649	1973	1,040	2,569	\$572,323
1976	5,791	6,988	1974	241	595	\$105,452
1977	6,096	7,166	1975	384	948	\$242,025
1978	9,630	8,365	1976	163	403	\$216,602

*Hunting year: September 1 to August 31.

FUR HARVESTS — in years ending June 30

Average Pelt Value, 1976		Totals from Sealing 1974	Officers' Reports 1975	Officers' Reports 1976	Fur Dealers' Returns 1977	Fur Dealers' Returns 1978
\$ 20.84	Beaver	181,468	175,099	156,105	136,856	147,556
13.97	Mink	20,724	17,975	17,194	14,856	20,557
19.47	Marten	27,649	27,150	18,006	20,768	38,878
64.93	Otter	9,027	8,122	7,507	7,835	8,592
100.41	Fisher	4,399	3,992	2,790	2,165	2,693
301.00	Lynx	5,137	3,698	1,918	1,151	1,722
126.38	Bobcat	41	52	25	24	16
5.42	Muskrat	385,241	513,279	487,238	435,290	433,163
23.31	Raccoon	29,722	40,641	47,560	44,223	93,178
1.48	Squirrel	2,748	5,846	6,076	5,817	4,180
1.35	Weasel	5,362	4,924	4,689	3,576	3,685
64.12	Col'rd Fox	8,127	13,409	11,809	10,131	15,979
37.06	Arctic Fox	23	58	127	101	199
83.65	Timb. Wolf	839	1,248	741	285	431
42.31	Coyote	397	892	1,319	2,276	4,394
50.60	Black Bear	322	375	288	283	284
164.60	Wolverine	1	1	1	.....	11
3.29	Skunk	3	57	171	98	210
64.12	Gray Fox .....	.....	.....	.....	.....	1
601.90	Polar Bear	12	18	15	17	24
Total Pelts		681,242	816,836	763,579	685,752	775,753
Total Value	\$ 4,234,962	7,230,167	6,410,167	7,998,708	11,284,007	

TRAPPER LICENCES, 1978

Registered	2,723 @ \$5 = \$13,615
Resident	7,808 @ \$5 = 39,040
Farmer, Indian Res	1,450 @ \$0 =
Registered Treaty	2,725 @ \$1 = 2,725
Resident Treaty	19 @ \$5 = 95
Totals	14,725 55,475

HUNTER EDUCATION PROGRAM

Training began in 1957. It became mandatory for new hunters in 1960 and for new hunters under the age of 20 years in 1968.

Year	ACTIVE INSTRUCTORS at Dec. 31	Yearly	STUDENTS TRAINED To Date	HUNTING ACCIDENTS		
				Non-Fatal	Fatal	Total
1974	1,046	28,900	356,937	102	11	113
1975	1,005	31,450	388,387	85	7	92
1976	1,005	31,785	420,172	50	6	56
1977	1,011	32,126	452,298	67	4	71
1978	879	38,500	490,798	60	8	68

PELTS — EXPORTED OR TANNED — in years ending June 30

Pelt	Quantity	Value	*1977	
			Quantity	Value
Beaver	159,984	\$2,873,312.64	138,837	\$2,928,072.33
Bobcat	29	1,475.23	20	2,062.00
Fisher	2,820	169,905.00	2,219	251,678.98
Arctic Fox	152	4,636.00	153	5,104.08
Col'rd Fox	14,183	445,488.03	11,774	650,631.24
Lynx	1,954	248,490.18	1,125	260,921.25
Marten	18,463	146,266.96	21,858	334,208.82
Mink	17,512	148,151.52	15,743	178,525.62
Muskrat	479,671	1,515,760.36	449,291	1,936,444.21
Otter	7,757	363,105.17	7,994	701,153.74
Raccoon	71,172	864,028.08	64,728	1,232,421.12
Weasel .....	.....	.....	.....	.....
Skunk	212	375.24	3	4.50
Wolverine	3	279.33	.....	.....
Total	773,912	6,781,233.74	713,745	8,481,227.89

*Total Royalties Collected: \$265,499.10

Pelt	1978	
	Quantity	Value
Beaver	148,901	\$3,103,096.84
Mink	21,583	301,514.51
Marten	38,179	743,345.13
Otter	8,896	577,617.28
Fisher	2,690	270,102.90
Lynx	1,738	523,138.00
Bobcat	25	3,159.50
Muskrat	480,669	2,605,225.98
Raccoon	96,099	2,240,067.69
Arctic Fox	226	8,375.56
Red Fox	16,357	1,048,810.84
Polar Bear	10	6,019.00
Timber Wolf	971	81,224.15
Coyote	3,565	150,835.15
Squirrel	3,548	5,251.04
Weasel	3,342	4,511.70
Black Bear	353	17,706.48
Skunk	274	901.46
Wolverine	8	1,316.80
Total	827,434	11,692,220.01
Total Royalties Collected .....	.....	\$588,552.80

29 PROVINCIAL WILDLIFE AREAS

	Hectares	Acres
Aylmer Provincial Wildlife Area	184	455
Brighton Provincial Wildlife Area	388	959
Bruce Recreation Area	3 925	9,699
Camden Lake Wildlife Management Area	1 052	2,599
Darlington Provincial Park	111	274
Fingal Provincial Wildlife Area	293	724
Gananoque Provincial Wildlife Area	567	1,401
Holiday Beach Provincial Park	198	489
Holland Marsh Provincial Wildlife Area	573	1,416
Hoople Creek Provincial Wildlife Area	105	259
Hullett Provincial Wildlife Area	2 347	5,799
Kolapore Uplands Recreational Area	4 209	10,400
Long Point Provincial Wildlife Area	381	941
Luther Marsh Wildlife Area	5 666	14,001
Matchedash Bay Provincial Wildlife Area	225	556
McRae Point Provincial Park	152	375
Mountain Provincial Wildlife Area	1 457	3,600
Nonquon River Wildlife Area	1 133	2,800
Point Petre Provincial Wildlife Area	1 276	3,153
Presqu'ile Provincial Park	931	2,300
Puslinch Crown Resource Managem't Area	138	341
Rankin Wildlife Management Area	13 703	33,860
Rondeau Provincial Park	4 654	11,500
St. Edmunds Provincial Wildlife Area	6 799	16,800
Scugog Island	182	450
Sibbald Point Provincial Park	225	556
Stag Island Wildlife Management Area	17	42
Tiny Marsh Provincial Wildlife Area	567	1,401
Wye Marsh Provincial Wildlife Area	919	2,271

13 WILDLIFE EXTENSION LANDOWNER AGREEMENT AREAS

	Hectares	Acres
Aylmer Ponds	43	106
Beverly Swamp	430	1,063
Binbrook	401	991
Calton Swamp	96	237
Christie	340	840
Crooks Hollow	17	42
Hawk Cliff	34	84
Lake St. Lawrence	6 070	14,999
Mud Lake	61	151
Orangeville Reservoir	316	781
Valens	223	551
Waterford Lakes	304	751
Willoughby Marsh	227	561

OUTDOOR RECREATION GROUP

PARKS AND RECREATIONAL AREAS BRANCH

Room W-3329, Main Office.

Telephone (416) 965-5160.

Branch Director	R. J. Vrancart	W-3329 5160
Policy Co-ordinator	W. B. Sargent	W-3345 3981
Planning Manager	D. Boggs	W-3342 3981
Senior Planner, Research	D. Hallman	W-3344 3981
Senior Planner, Parks	R. Beatty	W-3343 3981
Senior Planner, Recreational Areas	K. McCleary	W-3350 3981
ORSI Co-ordinator	D. Driscoll	W-3347 3981
Recreational Areas Planner	R. Phillips	W-3346 3981
Earth Sciences Co-ordinator	R. J. Davidson	W-3349 3981
Life Sciences Co-ordinator	T. J. Beechey	W-3348 3981
Operations Manager	W. Robertson	W-3330 2745
Parks Operations Officer	D. Barrow	W-3326 2745
Interpretive Specialist	R. Tilt	W-3303 2745
Rec. Areas Operations Officer	M. Garscadden	W-3322 2745
Extension Specialist	H. Christian	W-3325 2745
Development Manager	G. Ashenden	W-3324 2745
Development Clerk	Ms. S. Stuart	W-3331 2745
Senior Landscape Architect	G. Pittenger	W-3521 2745
Design Engineer	R. B. Lockwood	W-3324 2745
Development Engineer	I. Johnson	W-3325 2745
Environmental Sanitat'n Specialist	S. Cowan	W-3341 2745
Draftsperson	Ms. M. Lehocksy	W-3521 2745
Design Co-ordinator	H. Miles	W-3321 2745
Sanitary Engineer	J. Kolodziej	W-3321 2745
Electrical Designer	J. Konya	W-3321 2745
Architectural Designer	A. Chappelle	W-3321 2745
Marketing & Communications Mgr.	W. Yetman	W-3327 2745
Information Officer	Mrs. S. Fasken	W-3323 3081
Senior A.V. Designer	L. Walton	W-3310 2745
Sr. Publications & Exhibit Designer	M. Medved	W-3521 2745
Graphic Designer	A. Gokhan	W-3521 2745
A.V. Designer	G. Merchant	W-3310 2745
Publications & Exhibit Designer	J. Jordan	W-3521 2745

PUBLIC USE OF PROVINCIAL PARKS

Year	Vehicle Entries	Interior Campers	Campers	Average Days	Camper Nights	Total of Visitors
1974	3,286,106	102,456	1,615,677	2.3	3,702,059	11,031,651
1975	3,401,561	94,280	1,621,887	2.5	3,979,473	11,139,864
1976	3,431,189	99,373	1,515,353	2.5	3,747,209	10,616,237
1977	3,276,625	92,611	1,371,039	2.5	3,807,344	10,431,166
1978	2,940,238	82,601	1,324,808	2.2	3,116,421	9,570,382

PERSONAL VISITOR SERVICES CONTACTS

Year	Parks	Guided Tours	Film Programs	Other Programs	Individual Contacts	Total Contacts
1978	58	68,462	172,631	78,178	258,915	578,186

NON-PERSONAL VISITOR SERVICES CONTACTS

Year	Parks	Visitor and Activity Centres	Interpretive Publications		Self-Guiding Interpretive Trails	Total Contacts
			Free	Priced		
1978	58	870,877	890,221	188,122	354,094	2,303,314

GROWTH OF PROVINCIAL PARKS — Areas in hectares and acres

Year	Camping Parks	Camping Units	No.	Reserve Areas ha	Ac	No.	Provincial Parks ha	Ac
1974	95	20,036	128	453,606	1,120,861	117	4,215,294	10,416,219
1975	96	20,332	104	510,860	1,262,335	121	4,235,710	10,466,668
1976	96	19,851	105	508,720	1,257,047	122	4,359,257	10,771,959
1977	97	20,035	107	951,760	2,351,800	126	4,360,546	10,775,144
1978	98	20,176	139	964,334	2,382,913	128	*4,269,268	*10,543,250

*Boundaries of some parks redefined.

128 PROVINCIAL PARKS IN OPERATION IN 1978

Region, District Provincial Park	Area Hectares	Area Acres	Developed Campsites	Campers	Camper Nights
NORTHWESTERN REGION					
RED LAKE					
Pakwash	631	1,558	60	2,366	3,818
KENORA					
Rushing River	190	469	192	20,056	50,683
Sioux Narrows	129	320	71	4,728	10,021
FORT FRANCES					
Caliper Lake	134	331	92	4,115	8,170
Lake of the Woods	1,097	2,711	100	5,570	14,705
DRYDEN					
Aaron	70	173	98	7,349	8,756
Blue Lake	354	874	188	12,943	34,262
SIOUX LOOKOUT					
Ojibway	2,630	6,500	50	1,499	4,896
IGNACE					
Sandbar Lake	3,157	7,800	75	8,158	10,256
Total, 9 Parks	8,392	20,736	926	66,784	145,567
NORTH CENTRAL REGION					
ATIKOKAN					
Quetico	475,800	1,175,800	135	7,511	16,891
THUNDER BAY					
Inwood	33	82	85	7,992	8,089
Kakabeka Falls	420	1,039	156	25,640	38,586
Middle Falls	4	11	25	2,985	3,299
Sibley	24,435	60,380	209	13,567	23,328
NIPIGON					
Lake Nipigon	1,458	3,604	80	3,656	5,965
GERALDTON					
Klotz Lake	119	293	30	2,367	3,128
MacLeod	74	183	85	6,616	11,047
TERRACE BAY					
Neys	3,445	8,512	150	22,001	25,992
Rainbow Falls	575	1,422	230	21,170	23,956
WHITE RIVER					
Obatanga	9,409	23,250	117	11,980	16,714
White Lake	1,726	4,265	287	14,533	21,838
Total, 12 Parks	517,498	1,278,841	1,589	140,018	198,833
NORTHERN REGION					
HEARST					
Fushimi Lake	5,294	13,081	40	2,446	5,115
Nagagamisis	8,131	20,093	165	6,155	12,533
MOOSONEE					
Polar Bear	2,410,000	5,950,000	.....	.....	.....
Tidewater	980	2,421	36	553	854
KAPUSKASING					
Remi Lake	2,964	7,325	122	5,959	13,136
COCHRANE					
Greenwater	5,350	13,220	104	4,975	10,571
TIMMINS					
Kettle Lakes	1,261	3,115	165	9,216	23,791

Region, District Provincial Park	Hectares	Area Acres	Developed Campsites	Campers	Camper Nights
KIRKLAND LAKE					
Esker Lakes	3,237	8,000	136	5,642	12,728
Kap-Kig-Iwan	276	681	64	4,442	7,380
CHAPLEAU					
Five Mile Lake	456	1,128	45	2,637	4,166
Ivanhoe Lake	1,326	3,276	149	5,214	13,891
Missinaibi Lake	44,060	108,877	52	2,247	7,634
The Shoals	11,198	27,670	58	2,549	5,594
Wakami Lake	8,806	21,760	65	3,282	14,277
Total, 14 Parks	2,503,339	6,180,647	1,201	55,317	131,670
NORTHEASTERN REGION					
WAWA					
Lake Superior	155,700	384,600	316	29,503	35,776
SAULT STE. MARIE					
Batchawana	169	418	.....	.....	.....
Pancake Bay	466	1,151	340	27,849	44,135
BLIND RIVER					
Mississagi	2,883	7,124	101	5,217	13,132
ESPAÑOLA					
Chutes	108	268	100	19,104	23,033
SUDSBURY					
Fairbank	105	260	160	7,718	18,178
Halfway Lake	23,569	58,240	215	7,629	17,467
Killarney	34,126	84,328	122	7,255	27,142
Windy Lake	119	294	80	6,632	9,501
TEMAGAMI					
Finlayson Point	37	92	114	9,847	17,180
NORTH BAY					
Antoine	12	30	30	649	1,048
Marten River	400	989	216	13,089	29,856
Restoule	662	1,635	278	9,935	41,868
Samuel de Champlain	2,349	5,805	216	11,635	23,575
Total, 14 Parks	220,705	545,234	2,288	156,062	301,891
ALGONQUIN REGION					
PARRY SOUND					
Grundy Lake	2,554	6,310	520	24,421	73,117
Killbear	1,756	4,340	894	37,670	157,751
Oastler Lake	32	78	150	13,982	32,184
Sturgeon Bay	14	35	82	6,136	18,706
BRACEBRIDGE					
Arrowhead	963	2,379	389	24,728	77,106
Mikisew	53	131	263	10,327	32,476
BANCROFT					
Lake St. Peter	25	62	60	3,079	9,573
Petroglyphs	1,555	3,842	.....	.....	.....
Silent Lake	844	2,085	145	8,785	17,063
ALGONQUIN PARK					
Algonquin	765,300	1,891,200	1,335	81,229	224,870
Driftwood	232	574	80	7,650	11,891
PEMBROKE					
Bonnechere	113	280	113	5,793	20,066
Carson Lake	13	32	45	2,133	5,699
Total, 13 Parks	773,454	1,911,348	4,076	225,933	680,502

Region, District Provincial Park	Area Hectares	Acres	Developed Campsites	Campers	Camper Nights
EASTERN REGION					
OTTAWA					
Fitzroy	185	457	251	12,572	26,962
Rideau River	48	119	186	9,343	19,303
CORNWALL					
Carillon	694	1,715	416	15,644	31,288
South Nation	5	13	.....	.....	.....
BROCKVILLE					
Charleston Lake	902	2,230	227	12,244	39,221
LANARK					
Silver Lake	43	107	174	13,576	25,423
Murphys Point	1,239	3,061	170	4,494	8,594
TWEED					
Bon Echo	6,644	16,417	530	27,883	96,087
Sharbot Lake	69	170	191	9,488	28,070
NAPANEE					
Ferris	198	490	165	3,665	7,463
Lake on the Mountain	104	256	.....	.....	.....
North Beach	89	221	.....	.....	.....
Outlet Beach, Sandbanks	1,002	2,477	412	34,729	111,459
Presqu'ile	937	2,315	482	28,627	61,563
Total, 15 Parks	12,159	30,048	3,204	172,265	455,433
CENTRAL REGION					
LINDSAY					
Balsam River	449	1,109	483	27,052	71,936
Darlington	209	516	359	41,473	63,983
Emily	83	206	299	17,442	46,790
Mark S. Burnham	39	97	.....	.....	.....
Serpent Mounds	56	138	113	12,744	31,206
HURONIA					
Awenda	1,551	3,834	150	1,169	1,843
Bass Lake	39	96	92	16,384	29,584
Devil's Glen	6	14	45	4,252	6,048
Earl Rowe	300	742	490	31,426	77,785
Mara	45	112	106	9,691	20,184
McRae Point	138	340	204	13,231	23,467
Six Mile Lake	94	233	191	20,353	38,755
Springwater	47	117	.....	.....	.....
Wasaga Beach	502	1,240	.....	.....	.....
MAPLE					
Sibbald Point	225	556	656	41,545	90,180
CAMBRIDGE					
Bronte Creek	640	1,580	.....	.....	.....
NIAGARA					
Rock Point	98	241	128	8,835	9,853
Total, 17 Parks	4,521	11,171	3,316	245,597	511,614
SOUTHWESTERN REGION					
SIMCOE					
Long Point	141	349	264	18,035	59,575
Selkirk	73	179	145	5,738	14,661
Turkey Point	315	778	187	11,930	23,611

Region, District Provincial Park	Area Hectares	Area Acres	Developed Campsites	Campers	Camper Nights
AYLMER					
Iroquois Beach	227	560	232	10,445	30,046
John E. Pearce	68	168	.....	.....	.....
Port Bruce	5	13	.....	.....	.....
CHATHAM					
Holiday Beach	92	227	45	4,112	11,686
Ipperwash	56	138	263	18,478	64,263
Pinery	2,317	5,726	1,092	82,722	213,581
Rondeau	4,816	11,900	226	21,152	57,975
Wheatley	241	596	242	11,491	26,171
WINGHAM					
Point Farms	308	760	200	14,200	38,733
OWEN SOUND					
Craigleath	66	162	170	20,025	37,775
Cypress Lake	669	1,654	242	21,322	52,810
Fathom Five	9,800	24,300	.....	.....	.....
Inverhuron	289	713	.....	.....	.....
MacGregor Point	431	1,066	136	10,900	31,586
Sauble Falls	20	50	132	12,282	28,438
Total, 18 Parks	19,934	49,339	3,576	262,832	690,911
WATERWAY PARKS					
Chapleau-Nemegosenda	8,200	20,200	(Chapleau)	.....	.....
Lady Evelyn	2,464	6,088	(Temagami)	.....	.....
Mattawa	3,258	8,050	(North Bay)	.....	.....
Misissagi	19,800	49,000	(Blind River, Espanola, Chapleau)	.....	.....
Winisk	174,000	429,000	(Geraldton)	.....	.....
Total, 5 Parks	207,722	512,338	.....	.....	.....
NATURE RESERVE PARKS					
Cavern Lake	187	467	(Thunder Bay)	.....	.....
East Sister Island	53	131	(Chatham)	.....	.....
Gibson River	168	415	(Huronia)	.....	.....
Matawatchan	65	160	(Pembroke)	.....	.....
Montreal River	44	108	(Sault Ste. Marie)	.....	.....
Ojibway Prairie	65	161	(Chatham)	.....	.....
Ouimet Canyon	777	1,920	(Thunder Bay)	.....	.....
Peters Woods	34	83	(Lindsay)	.....	.....
Porphyry Island	107	264	(Thunder Bay)	.....	.....
Trillium Woods	10	25	(Aylmer)	.....	.....
Waubashene Beaches	34	84	(Huronia)	.....	.....
Total, 11 Parks	1,544	3,818	.....	.....	.....
TOTAL, 128 Parks	4,269,268	10,543,520	20,176	1,324,808	3,116,421

139 PROVINCIAL PARK RESERVE AREAS IN 1978

Region, District Reserve Area		Hectares	Area Acres
NORTHWESTERN REGION			
RED LAKE			
Berens Dowling		3,610	8,921
Lund Lake		275	679
Stout Lake		224,811	555,520
Telescope Lake		783	1,934
Woodland Caribou		362,598	896,000
KENORA			
Pipestone Peninsula		1,429	3,530
Pistol Lake		1,629	4,024
FORT FRANCES			
Pow-Wow Grounds		700	1,730
Sand Point Island		889	2,197
Total, 9 Areas		596,724	1,474,535
NORTH CENTRAL REGION			
ATIKOKAN			
Warner Lake		302	745
White Otter Lake		24,281	60,000
THUNDER BAY			
Arrow Lake		405	1,000
Arrowhead Peninsula		344	850
Inwood		405	1,000
Kashabowie		7,742	19,130
La Verendrye W.R.		1,311	3,240
Silver Falls		3,637	8,988
NIPIGON			
Cypress River		243	600
Gravel Bay		101	250
Gravel River		324	800
Humboldt Bay		29,542	73,000
Kopka Lake		4,047	10,000
Partridge Lake		2,631	6,500
GERALDTON			
Esnagami Lake		23,472	58,000
Lukinto Lake		911	2,250
Purgatory Chutes		41	100
TERRACE BAY			
Slate Island		3,963	9,793
Steel River		1,093	2,700
WHITE RIVER			
Kakakiwibik		23,829	58,881
Kawapitapika Lake		1,133	2,800
Total, 21 Areas		129,757	320,627
NORTHERN REGION			
HEARST			
Fushimi Lake		10,836	26,776
Nagagami Lake		1,653	4,085
Rogers		611	1,510
KAPUSKASING			
Missinaibi W.R.		11,131	27,505

Region, District Reserve Area		Hectares	Area Acres
COCHRANE			
Long Point Peninsula	.....	7,487	18,500
Otter Rapids	.....	197	486
Pierre-Montreuil	.....	17,032	42,088
TIMMINS			
Dana-Jowsey Lakes	.....	2,590	6,400
KIRKLAND LAKE			
McCann	.....	259	640
CHAPLEAU			
Missinaibi Lake	.....	18,434	45,552
The Shoals	.....	6,401	15,816
GOGAMA			
Dividing Lake	.....	7,786	19,240
La Motte Lake	.....	506	1,250
Total, 13 Areas	.....	84,923	209,848
NORTHEASTERN REGION			
WAWA			
Pothole	.....	352	870
SAULT STE. MARIE			
Marks Bay	.....	104	258
BLIND RIVER			
Aubrey Falls	.....	6,880	17,000
Mashagama	.....	259	640
Mississagi	.....	39,225	97,000
ESPAÑOLA			
La Cloche	.....	4,969	12,278
SUDBURY			
Halfway Lake	.....	23,569	58,240
Wanapitae Lake	.....	1,349	3,334
TEMAGAMI			
W. B. Greenwood	.....	9,308	23,000
NORTH BAY			
Restoule	.....	467	1,155
South Bay	.....	1,604	3,963
Total, 11 Areas	.....	88,116	217,738
ALGONQUIN REGION			
BRACEBRIDGE			
Bigwind Lake	.....	1,877	4,638
Chetwynd	.....	85	210
Ragged Falls	.....	139	344
MINDEN			
Buckhorn	.....	385	950
Gull River	.....	27	69
Red Pine Lake	.....	2,914	7,200
BANCROFT			
Kawartha Highlands	.....	1,538	3,800
McKenzie Lake	.....	1,379	3,408
PEMBROKE			
Centennial Lake	.....	4,057	10,025
Madawaska River	.....	1,052	2,600
Round Lake	.....	124	307

Region, District Reserve Area		Hectares	Area Acres
PARRY SOUND			
Blackstone Harbour	6,772	16,734	
Franklin Island	7	18	
C.N.R. Line			
Magnetawan W. R.	7,921	19,572	
McDonald Bay	445	1,100	
O'Donnell Point	862	2,130	
Round Lake	9,820	24,265	
Shawanaga Basin	1,036	2,560	
South Limestone Island	5	11	
Total, 20 Areas	40,445	99,941	
EASTERN REGION			
BROCKVILLE			
Blue Mountain	726	1,795	
LANARK			
Kilmarnock	26	63	
Mouth of Tay	64	159	
TWEED			
Baudner Property	35	86	
NAPANEE			
Casey Point	33	81	
Sandbanks	90	223	
CORNWALL			
Cornwall Recreation Area	83	204	
Total, 7 Areas	1,057	2,611	
CENTRAL REGION			
HURONIA			
Allandale	80	198	
Bass Lake (PP extension)	30	75	
Bass Lake	185	457	
Boyne Valley (Primrose)	1,073	2,652	
Couchiching	44	108	
Devil's Glen	55	135	
Giant's Tomb	479	1,184	
Gloucester Pool	36	89	
Lavender Falls	202	499	
Matchedash	2,509	6,200	
Minesing Swamp	438	1,083	
Mono Cliffs	531	1,313	
Nottawasaga Lookout	219	540	
Scott's Falls	489	1,207	
Wasaga Backlands	877	2,171	
MAPLE			
Cheltenham	100	246	
Credit Forks	205	507	
Duclos Point	137	338	
Grange Property	142	350	
CAMBRIDGE			
Burlington Parkway Belt	26	65	
Cranberry Bog	9	20	
Yaremko-Ridley	65	160	

Region, District Reserve Area	Hectares	Area Acres
LINDSAY		
Harris Island	75	186
Indian Point	857	2,118
Kendal Recreation Area	349	863
Quackenbush Site	49	121
Scugog Island	168	415
Wolf Island	188	464
NIAGARA		
James N. Allen	113	278
Short Hills	510	1,259
Total, 30 Areas	10,240	25,301
SOUTHWESTERN REGION		
AYLMER		
East Zorra Trail	24	60
Kamoka	121	300
CHATHAM		
Fish Point	111	273
Fox Property	7	18
Lighthouse Point	97	239
Tremblay Beach	62	154
WINGHAM		
Stinson Estate	48	119
OWEN SOUND		
Beaver Valley Lowlands	540	1,334
Black Creek	285	704
Cape Chin	437	1,080
Colpoys Bluffs	212	523
Cyprus Lake	287	709
Dorcas Bay	68	168
Dunks Bay		
Dyer Bay	61	151
Eugenia Lake	4	10
Fathom Five	135	334
Hoggs Fall	82	204
Hope Bay	462	1,141
Johnston Harbour	2,518	6,224
Kolapore Uplands	1,934	4,780
Lion's Head Lookout	1	3
Lion's Head Recreation Area	486	1,200
Meaford Lookout	403	997
Pretty River Valley	849	2,099
Spring Creek	31	78
Umbrella Lake	3,530	8,724
Total, 28 Areas	13,072	32,312
TOTAL, 139 Areas	964,334	2,382,913

OUTDOOR RECREATION GROUP

FISHERIES BRANCH

2nd Floor, Section 3, Main Office.

Telephone (416) 965-7887.

Branch Director	K. H. Loftus	7887
Fisheries Policy Development Section	F. P. Maher, Spvr	7887
Fisheries Demand Planner	N. W. Smith	7887
Fisheries Supply Planner	E. T. Cox	7887
Fisheries Services Section	G. R. Whitney	7887
Data Systems and Analyses	W. G. Simpson	7887
Fisheries Information	A. A. Wainio	7887
Population Dynamics Section	C. H. Olver, A/Spvr	7887

2nd Floor, Section 4, Main Office.

Commercial Fisheries Section	J. W. Rousom, Spvr	3345
Commercial Fish Management	J. C. Tilt	3345
Commercial Fish Quota	G. W. Lance	7887
Environmental Dynamics Section	D. P. Dodge, Spvr	7887
Habitat Enhancement	R. M. Biette	7887
Habitat Maintenance	J. T. Allin	7887
Aquatic Habitat Inventory	G. A. Goodchild	7887
Inventory Data Sys & Lab Spec	G. E. Gale	7887
Fish Culture Section	J. M. Byrne, Spvr	7887
Assessment	D. O. Evans	7887
Systems Specialist	E. A. White	7887
Production	J. D. Hynes	7887
Fish Nutrition Specialist	C. Y. Cho	(519) 824-4120-2212

Box 50, Maple, Ontario L0J 1E0.

Telephone (416) 832-2761.

Fisheries Research Section	A. H. Lawrie, Spvr	Ext. 251
Brook Trout	J. M. Fraser	Ext. 251
Smallmouth Bass	J. A. MacLean	Ext. 251
Limnology	A. M. McCombie	Ext. 251
Systems Ecology	B. Shuter	Ext. 251
Selective Breeding	P. Ihssen	Ext. 292
Harkness Memorial Lab	D. Cucin	Ext. 251
Box 110, Whitney, Ontario K0J 2M0		(705) 637-2103

RESEARCH STATION

Fisheries Research Station, Box 5000	R. A. Ryder
Thunder Bay, Ontario P7C 5G6	(807) 475-1635
Sault Ste. Marie Research Station	P. J. Colby
875 Queen Street East, Sault Ste. Marie,	
Ontario P6A 2B3	1635
South Baymouth Fisheries Laboratory	
R.R. 1, Tehkummah, Ontario P0P 2C0	
Wheatley Fisheries Research Station	
R.R. 2, Wheatley, Ontario N0P 2P0	
Glenora Fisheries Research Station	
R.R. 4, Picton, Ontario K0K 2T0	

T. W. Kwain	(705) 942-1411
G. R. Spangler	(705) 859-3137
J. A. Reckahn	3137
S. J. Nepszy	(519) 825-4171
J. H. Leach	4171
W. J. Christie	(613) 476-2400
D. A. Hurley	2400

FISH PLANTINGS — Numbers in 000s of Fish and Eggs Stocked from Ontario Fish Culture Stations

F — Fish E — Eggs

Species		1974	1975	1976	1977	1978
Bass, Largemouth	F	167	209	140	92	112
Bass, Smallmouth	F	173	106	106	208	185
Maskinonge	F	1,253	1,186	1,360	949	1,271
Pickerel, Yellow	E	11,210	8,210	7,700	7,200	—
	F	.....	350	160	660	8
Salmon, Chinook	F	225	.....	.....	.....	393
Salmon, Coho	F	438	226	222	209	201
Splake	E	.....	.....	.....	.....	377
	F	370	556	678	957	188
Trout, Aurora	F	.....	.....	.....	.....	38
Trout, Brook	E	.....	.....	.....	.....	380
	F	1,939	1,522	1,597	1,878	1,078
Trout, Lake	E	.....	76	252	120	120
	F	1,744	1,258	2,339	2,214	1,536
Trout, Rainbow	E	1,267	625	125	350	—
	F	763	1,023	1,308	1,042	1,058
Total		19,549	15,347	15,987	15,939	6,946

COMMERCIAL FISHING LICENCES

Year	Food-Fish Harvesting	Bait-Fish Harvesting	Bait-Fish Dealers	Bait-Fish Preservers	Total
1974	1,116	1,623	1,832	110	4,680
1975	1,121	1,590	1,606	96	4,413
1976	1,086	1,595	1,753	107	4,541
1977	1,056	1,605	1,731	98	4,490
1978	1,048	1,679	1,832	99	4,656

ANGLING LICENCES

Year	Number Sold to Non-Residents
1974	656,960
1975	647,848
1976	627,364
1977	630,120
1978	654,672

FISH DISTRIBUTION from Ontario Fish Culture Stations
 Numbers and weights in year ending March 31, 1979 (E — Eggs)

Station	Species	Number	kg	Ibs
Chatsworth	Coho Salmon	201,073	3,673	8,092
	Lake Trout	114,496	1,332	2,935
	Splake	377,220E 823	1,275	2,810
Codrington	Brock Trout	70,360	6,712	14,876
Deer Lake	Rainbow Trout	115,050	5,004	11,024
	Maskinonge	1,271,274	119	264
Dorion	Brook Trout	14,800	176	388
	Lake Trout	377,600	4,819	10,615
Hill Lake	Brook Trout	380,000E 301,419	10,347	22,791
	Lake Trout	120,000E 40,100	703	1,550
	Aurora Trout	38,432	7	16
Normandale	Rainbow Trout	510,052	20,866	45,961
Pembroke	Brook Trout	178,392	10,441	22,999
	Lake Trout	154,249	3,011	6,633
	Splake	19,000	769	1,695
Sandfield	Brook Trout	84,440	2,918	6,429
	Splake	137,280	1,416	3,120
	Smallmouth Bass	136,174	161	355
Skeleton Lake	Rainbow Trout	120,615	9,341	20,575
	Brook Trout	134,150	2,595	5,718
	Lake Trout	133,600	2,025	4,462
Tarentorous	Rainbow Trout	18,598	245	541
	Brook Trout	192,296	7,284	16,045
	Lake Trout	432,210	5,235	11,533
Westport	Splake	30,723	696	1,534
	Brook Trout	12,925	791	1,744
	Largemouth Bass	112,000	19	43
White Lake	Rainbow Trout	29,900	806	1,776
	Brook Trout	89,550	2,215	4,881
	Lake Trout	284,000	1,945	4,285
Wiarton	Smallmouth Bass	48,500	32	72
	Yellow Pickerel	7,647	64	143
	Chinook Salmon	392,608	207	458
	Rainbow Trout	263,958	46	102

EMPLOYMENT AND INVESTMENT

Classification		Lake Ontario	Lake Erie	Lake Huron
MEN EMPLOYED	Number	386	689	134
FISHING BOATS				
12.2 m and over	Number	4	118	27
(40' and over)	kg	61 688	2 886 647	456 312
	(Tons)	(68)	(3,182)	(503)
	Value \$	142,000	6,654,500	1,192,600
6.1 m to 11.9 m	Number	77	43	11
(20' to 39')	Value \$	336,550	410,650	121,200
under 6.1 m	Number	195	68	12
(under 20')	Value \$	171,954	57,893	13,800
FISHING GEAR				
Gill Nets	Metres	832 611	6 570 435	972 739
	(Yards)	(910,555)	(7,185,515)	(1,063,800)
	Value \$	425,320	2,806,722	621,326
Pound Nets	Number	—	82	2
	Value \$	—	107,000	3,000
Trap Nets	Number	81	134	116
	Value \$	56,400	188,900	208,691
Hoop Nets	Number	1,778	176	3
	Value \$	240,000	53,075	2,500
Seine Nets	Metres	2 551	4 206	—
	(Yards)	(2,790)	(4,600)	—
	Value \$	17,625	31,075	—
Night Lines	Hooks	31,024	9,200	1,000
	Value \$	14,720	7,270	1,000
Dip Nets	Number	9	6	—
	Value \$	102	105	—
Trawls	Number	—	294	—
	Value \$	—	355,050	—
SHORE INSTALLATIONS				
Freezers & Ice Houses	Number	38	29	20
	Value \$	174,300	840,170	278,300
Piers & Wharves	Number	36	41	11
	Value \$	68,900	385,194	45,700
Net Sheds	Number	103	112	25
	Value \$	203,240	811,110	420,100
Miscellaneous Equipment	Value \$	600	2,000	—
NEW CAPITAL INVESTMENT				
Engines	Value \$	67,419	237,557	6,786
Hulls	Value \$	98,954	333,476	12,000
Fishing Gear	Value \$	81,248	580,902	196,736
Wheelhouse	Value \$	5,873	201,633	12,811
Other Equipment	Value \$	1,350	—	—
TOTAL VALUE		\$2,106,555	\$14,064,282	\$3,136,550

IN ONTARIO COMMERCIAL FISHERY, 1978

Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
131	55	192	575	69	2,231
20	10	21	6	—	206
299 369	167 828	292 112	56 245	—	4 220 201
(330)	(185)	(322)	(62)	—	(4,652)
669,000	163,000	743,500	139,300	—	9,703,900
25	5	30	93	3	287
157,350	16,600	213,955	262,350	5,500	1,524,155
46	23	47	294	45	730
41,474	17,650	56,780	309,235	27,760	696,546
888 394	316 840	898 826	675 370	26 746	11 145 386
(971,560)	(346,500)	(982,968)	(698,594)	(29,250)	(12,188,742)
601,655	146,000	702,040	306,385	19,820	5,629,268
10	15	8	24	—	141
31,300	19,300	12,400	21,000	—	194,000
8	13	10	108	3	473
9,200	10,000	12,000	100,236	2,900	588,327
1	—	1	130	370	2,459
800	—	600	17,850	56,815	371,640
—	—	—	—	550	7 307
—	—	—	—	(601)	(7,991)
—	—	—	—	3,350	52,050
—	—	—	200	2,900	44,324
—	—	—	20	1,085	24,095
3	—	9	5	2	34
14	—	165	90	20	496
—	—	22	—	—	316
—	—	20,300	—	—	375,350
34	17	35	144	12	329
131,625	107,600	552,695	613,050	31,400	2,729,140
29	8	37	94	6	262
75,225	17,850	66,430	113,489	18,825	791,613
40	17	52	86	12	447
141,800	66,500	120,500	119,236	12,275	1,894,761
—	—	—	31,000	1,500	35,100
20,413	12,063	23,006	65,268	7,019	439,531
26,000	1,169	15,995	94,625	200	582,419
56,643	34,968	61,974	88,489	7,364	1,108,324
8,742	4,164	29,193	7,766	2,007	272,189
—	—	30,000	12,000	—	43,350
\$1,971,241	\$616,864	\$2,661,533	\$2,301,389	\$197,840	\$27,056,254

ONTARIO COMMERCIAL FISH HARVEST, 1978 — Weights in Kilograms

Fish Species	Ontario Lake	Erie Lake	Huron Lake	Bay Georgian
Alewives	450	—	—	—
Bowfin	4,618	11,421	—	—
Burbot (Ling)	2	4	—	1,299
Bullhead	162,626	19,562	594	2,790
Carp	4,121	28,745	14,850	6,089
Catfish	1,674	44,055	32,305	59
Pacific Salmon	293	3	234	336
Chub (Deepwater Cisco)	—	—	17,276	150,824
Eel	228,701	126	8	—
Lake Herring (Cisco)	5,472	—	3,650	16,196
Lake Trout	302	1	15,707	89
Lake Whitefish	2,103	1,983	641,322	71,357
Goldeye	—	—	—	—
Freshwater Drum	91	158,145	7,218	—
Northern Pike	11,553	24,899	200	2,875
Rock Bass	16,809	12,309	196	909
Crappie	6,207	63	—	—
Round Whitefish	387	—	9,458	12,790
Sauger	14	82	—	855
Shad	1,305	209	394	—
Smelt	26,974	11,973,975	1,518	2,754
Splake	—	—	11,907	85
Sturgeon	1,789	973	1,211	437
Sucker (Mullet)	4,351	12,863	48,747	19,203
Sunfish	67,449	22,757	—	—
White Bass	4,830	741,945	6,613	819
White Perch	225,642	—	—	—
Yellow Perch	318,237	3,962,627	123,569	34,631
Yellow Pickerel	7,289	264,977	76,986	22,925
Animal Food	8,708	789,977	111,921	1,266
Total Landings	1,111,997	18,071,701	1,178,884	348,600
Total Landed Value	\$1,137,837	\$9,883,626	\$1,959,806	\$519,968

ONTARIO COMMERCIAL FISH HARVEST, 1978 — Weights in Kilograms

North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings	Total Value
—	—	—	—	450	\$ 0
—	—	—	374	16,425	1,633
752	6,436	163,968	248	172,709	9,684
150	—	3,412	33,177	222,311	160,215
592	160	—	58,261	112,818	49,620
61	—	—	8,136	86,290	89,340
5	1,820	—	—	2,691	4,687
553	293,492	42,746	—	557,891	847,144
—	—	—	2,549	231,384	476,138
3,749	853,664	46,423	—	929,154	456,572
402	128,435	20,288	—	165,224	250,696
87,561	150,462	737,056	—	1,691,844	2,389,636
—	—	184	—	184	1
—	—	29	468	165,951	14,927
4,794	1,254	298,127	—	343,702	289,435
68	1	26,768	1,402	58,462	67,886
—	—	12,787	2,483	21,540	35,611
2,628	14,471	171	—	39,905	22,797
—	6	12,061	—	13,018	10,643
—	—	—	—	1,908	56
225	294,166	—	—	12,299,612	2,215,121
2	—	—	—	11,994	23,177
1,943	401	4,058	2,669	13,481	49,416
23,238	41,511	385,164	830	535,907	57,478
—	—	—	15,443	105,649	63,360
511	423	918	167	756,226	1,075,321
—	—	—	2,878	228,520	113,314
12,864	40,552	7,125	5,721	4,505,326	6,583,070
6,431	255	466,920	—	845,783	1,776,782
25,587	6,485	123,758	5,580	1,073,282	27,385
172,116	1,833,994	2,351,963	140,386	25,209,641	—
\$196,416	\$1,307,350	\$2,052,870	\$103,272	—	\$17,161,145

ONTARIO COMMERCIAL FISH HARVEST, 1978 — Weights in Pounds

Fish Species	Lake Ontario	Lake Erie	Lake Huron	Georgian Bay
Alewives	1,000	—	—	—
Bowfin	10,262	25,379	—	27
Bullhead	361,390	43,742	1,319	6,201
Burbot (Ling)	5	8	—	2,887
Carp	9,157	63,877	32,999	13,531
Catfish	3,721	97,901	71,789	131
Chub (Deepwater Cisco)	—	—	156,168	335,164
Crappie	13,793	141	—	—
Eel	508,225	281	18	—
Lake Herring (Cisco)	12,159	—	8,110	35,992
Lake Trout	670	3	34,904	198
Lake Whitefish	4,674	4,406	1,425,160	158,570
Goldeye	—	—	—	—
Freshwater Drum	203	351,433	16,040	—
Northern Pike	25,673	55,332	444	6,388
Pacific Salmon	652	6	520	746
Rock Bass	37,345	27,354	436	2,019
Round Whitefish	860	—	21,017	28,423
Sauger	31	182	—	1,900
Shad	2,900	465	875	—
Smelt	59,943	26,608,833	3,373	6,120
Splake	—	—	26,459	189
Sturgeon	3,975	2,163	2,691	971
Sucker (Mullet)	9,668	28,585	108,326	42,674
Sunfish	149,887	50,570	—	—
White Bass	10,733	7,648,767	14,695	1,819
White Perch	501,427	—	—	—
Yellow Perch	707,193	8,805,838	274,597	76,957
Yellow Pickerel	16,197	588,838	171,080	50,944
Animal Food	19,352	1,755,506	248,714	2,813
Total Landings	2,471,104	40,159,610	2,619,734	774,664
Total Value	\$1,137,837	\$9,883,626	\$1,959,806	\$519,968

ONTARIO COMMERCIAL FISH HARVEST, 1978 — Weights in Pounds

North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings	Total Value
—	—	—	—	1,000	\$ 0
—	—	—	832	36,500	1,633
333	—	7,583	73,726	494,294	160,215
1,670	14,302	364,373	550	383,795	9,684
1,316	366	—	129,469	250,715	49,620
135	—	—	18,081	191,758	89,340
1,229	652,205	94,992	—	1,239,758	847,144
—	—	28,415	5,517	47,866	35,611
—	—	—	5,664	514,188	476,138
8,331	1,897,030	103,163	—	2,064,785	456,572
894	285,412	45,084	—	367,165	250,696
196,766	334,359	1,637,902	—	3,761,837	2,389,636
—	—	408	—	408	1
—	—	64	1,040	368,780	14,927
10,654	2,787	662,504	—	763,782	289,435
12	4,045	—	—	5,981	4,687
150	2	59,485	3,115	129,915	67,886
5,841	32,158	381	—	88,680	22,797
—	13	26,803	—	28,929	10,643
—	—	—	—	4,240	56
500	653,702	—	—	27,332,471	2,215,121
4	—	—	—	26,652	23,177
4,317	890	9,017	5,932	29,956	49,416
51,640	92,246	855,920	1,845	1,190,904	57,478
—	—	—	34,317	234,774	63,360
1,135	940	2,039	371	1,680,499	1,075,321
—	—	—	6,396	507,823	113,314
28,587	90,115	15,834	12,714	10,011,835	6,583,070
14,292	567	1,037,601	—	1,879,519	1,776,782
56,860	14,410	275,018	12,400	2,385,073	27,385
384,666	4,075,549	5,226,586	311,969	56,023,882	—
\$196,416	\$1,307,350	\$2,052,870	\$103,272	—	\$17,161,145

ONTARIO COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Species	1974	1975	1976	1977	1978	Value 1978
Bowfin	25	26	18	18	16	\$ 2
Bullhead	215	270	263	281	222	160
Burbot (Ling)	174	172	132	208	173	10
Carp	284	286	291	216	113	50
Catfish	84	119	61	65	86	89
Chub	473	593	725	602	558	847
Pacific Salmon .....	.....	.....	.....	2	3	5
Eel	103	157	157	189	232	476
Freshwater Drum	178	184	171	184	166	15
Goldeye .....	.....	.....	.....	.....	.....	.....
Lake Herring	1,038	1,031	652	863	929	457
Lake Trout	103	105	104	112	165	251
Lake Whitefish	1,062	1,102	1,148	1,445	1,692	2,390
Northern Pike	326	274	272	312	344	289
Rock Bass and Crappie	58	84	99	86	80	103
Round Whitefish	30	41	62	40	40	23
Sauger	22	21	13	9	13	11
Smelt	7,606	7,799	8,210	10,593	12,300	2,215
Splake .....	.....	.....	.....	13	12	21
Sturgeon	11	12	16	17	13	49
Sucker	527	600	606	639	536	57
Sunfish	167	215	176	128	106	63
White Bass	1,062	1,161	509	454	756	1,075
White Perch	132	174	337	198	229	113
Yellow Perch	6,035	4,252	2,754	4,367	4,505	6,583
Yellow Pickerel	641	620	689	1,134	846	1,777
Animal Food	3,594	1,101	1,034	1,168	1,076	28
Total Landings	23,951	20,413	18,497	23,343	25,211	
Total Landed Value	\$9,654	\$11,052	\$12,513	\$14,555		\$17,161

ONTARIO COMMERCIAL FISH HARVEST — by Species in 000s lbs and \$000s

Species	1974	1975	1976	1977	1978	Value
						1978
Bowfin	56	57	39	41	37	\$ 2
Bullhead	477	600	584	625	494	160
Burbot (Ling)	387	383	293	462	384	10
Carp	631	636	646	480	251	50
Catfish	187	265	136	144	192	89
Chub (Deepwater Cisco)	1,050	1,317	1,612	1,338	1,240	847
Pacific Salmon	53	133	78	5	6	5
Crappie .....	.....	.....	.....	26	48	36
Eel	229	379	348	420	514	476
Freshwater Drum	396	408	380	408	369	15
Goldeye	1	2	.....	2	.....	.....
Lake Herring (Cis.)	2,306	2,292	1,449	1,917	2,065	457
Lake Trout	229	233	230	249	367	251
Lake Whitefish	2,359	2,449	2,552	3,211	3,762	2,390
Northern Pike	725	608	604	693	764	288
Rock Bass	129	187	221	165	130	69
Round Whitefish	66	91	138	88	89	23
Smelt	16,902	17,333	18,245	23,450	27,332	2,215
Splake .....	.....	.....	.....	29	27	23
Sturgeon	25	27	35	38	30	49
Sucker (Mullet)	1,170	1,333	1,347	1,420	1,191	57
Sunfish	372	478	391	284	235	63
White Bass	2,359	2,580	1,131	1,008	1,680	1,075
White Perch	293	387	748	439	508	113
Yellow Perch	13,411	9,449	6,119	9,705	10,012	6,583
Yellow Pickerel	1,430	1,377	1,531	2,520	1,880	1,777
Animal Food	7,934	2,313	2,220	2,595	2,386	27
Sauger	49	46	28	21	29	11
Total Landings	53,225	45,363	41,105	51,873	56,024	
Total Landed Value	\$9,654	\$11,052	\$12,513	\$14,555		\$17,161

ONTARIO COMMERCIAL FISH HARVEST — by Waters in 000s kg and \$000s

Year	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay	North Channel	Lake Superior	Northern Inland	Southern Inland	Total	Total \$
1974	1,064	17,409	.....	779	461	277	1,774	1,985	203	23,951	9,654
1975	1,250	13,747	.....	824	514	163	1,696	2,039	180	20,413	11,052
1976	1,311	11,570	.....	998	487	263	1,751	1,940	178	18,497	12,513
1977	1,107	16,134	.....	1,067	456	226	1,738	2,446	168	23,343	14,555
1978	1,112	18,072	.....	1,179	349	172	1,834	2,352	140	25,210	17,161
<i>by Waters in 000s lbs and \$000s</i>											
1974	2,364	38,686	.....	1,730	1,025	616	3,942	4,411	451	53,225	9,654
1975	2,777	30,549	.....	1,830	1,142	362	3,769	4,532	402	45,363	11,052
1976	2,914	25,711	.....	2,217	1,082	585	3,891	4,310	395	41,105	12,513
1977	2,461	35,854	.....	2,371	1,013	502	3,863	5,436	373	51,873	14,555
1978	2,471	40,160	.....	2,620	775	385	4,075	5,226	312	56,024	17,161

LAKE ONTARIO COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Eel	Lake Herring	Smelt	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total \$
1974	222	178	100	15	46	91	131	316	66	1,064	506
1975	170	186	167	12	47	135	171	270	92	1,250	782
1976	158	193	154	7	41	102	328	258	71	1,311	1,003
1977	183	107	186	5	23	77	191	263	72	1,107	761
1978	164	9	229	6	27	67	226	318	66	1,112	1,138
<i>by Species in 000s lbs and \$000s</i>											
1974	271	395	222	33	103	202	290	702	146	2,364	506
1975	378	414	370	27	104	300	381	599	204	2,777	782
1976	351	429	342	15	91	226	729	574	157	2,914	1,003
1977	407	237	414	12	51	171	425	594	160	2,461	701
1978	365	9	508	12	60	150	501	707	155	2,471	1,138

LAKE ERIE COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Smelt	White Bass	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1974	89	19	162	7,110	1,056	5,492	105	3,375	17,409	5,634
1975	125	29	149	7,614	1,153	3,696	56	924	13,747	6,009
1976	80	24	153	7,736	504	2,073	114	869	11,570	5,990
1977	69	42	180	10,347	444	3,830	238	985	16,134	7,737
1978	64	29	158	11,974	742	3,963	265	877	18,072	9,884

by Species in 000s lbs and \$000s

1974	197	42	361	15,800	2,346	12,205	234	7,501	38,686	5,634
1975	278	64	331	16,921	2,563	8,213	125	2,054	30,549	6,009
1976	177	53	341	17,190	1,120	4,646	254	1,930	25,711	5,990
1977	153	93	400	22,999	986	8,510	529	2,189	35,854	7,737
1978	142	64	351	26,609	1,649	8,806	589	1,950	40,160	9,884

LAKE HURON COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1974	20	23	—	283	3	32	141	89	187	779	770
1975	20	43	3	295	7	25	169	93	171	824	1,019
1976	20	48	—	401	12	65	181	68	205	998	1,408
1977	9	39	—	560	5	41	104	123	186	1,067	1,655
1978	15	70	4	641	9	49	124	77	190	1,179	1,960

by Species in 000s lbs and \$000s

1974	44	50	2	628	6	72	314	198	416	1,730	770
1975	42	95	6	655	15	56	376	206	379	1,830	1,019
1976	42	106	2	890	26	144	402	150	455	2,217	1,408
1977	19	86	1	1,244	12	91	231	274	413	2,371	1,655
1978	33	156	8	1,425	21	108	275	171	423	2,620	1,960

GEORGIAN BAY COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1974	1	276	24	66	14	15	27	21	17	461	467
1975	—	311	12	64	11	18	57	21	18	514	649
1976	8	279	9	39	15	14	66	38	21	487	807
1977	8	172	18	72	15	32	64	52	23	456	685
1978	6	151	16	71	13	19	35	23	15	349	520
by Species in 000s lbs and \$000s											
1974	3	613	54	146	32	34	60	46	37	1,025	467
1975	2	692	27	142	25	40	127	47	40	1,142	649
1976	15	619	20	87	34	30	146	84	47	1,082	807
1977	17	382	41	160	33	71	142	115	52	1,013	685
1978	14	335	36	159	28	43	77	51	32	775	520

NORTH CHANNEL COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Smelt	Lake Whitefish	Northern Pike	Round Whitefish	Sturgeon	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1974	94	79	6	4	3	32	8	11	41	277	175
1975	....	47	7	5	3	39	18	11	34	163	138
1976	....	42	13	20	2	60	73	11	41	263	267
1977	....	85	11	4	2	29	27	9	60	226	211
1978	....	88	5	3	2	23	13	6	32	172	196
by Species in 000s lbs and \$000s											
1974	208	176	13	8	7	70	18	25	91	616	175
1975	....	104	16	10	6	87	39	24	76	362	138
1976	....	94	30	45	4	133	163	24	92	585	267
1977	....	189	24	8	4	65	59	19	139	502	211
1978	1	197	11	6	4	52	29	14	71	385	196

LAKE SUPERIOR COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Chub	Lake Herring	Lake Trout	Lake Whitefish	Smelt	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1974	139	916	89	149	355	70	30	1	25	1,774	852
1975	205	973	82	133	136	100	29	—	37	1,696	1,011
1976	366	594	76	117	427	75	64	—	31	1,751	1,247
1977	344	793	91	109	216	64	66	2	54	1,738	1,172
1978	294	854	128	151	294	42	41	—	30	1,834	1,307
by Species in 000s lbs and \$000s											
1974	309	2,036	198	330	788	155	67	3	56	3,942	852
1975	455	2,162	182	296	303	222	65	1	83	3,769	1,011
1976	813	1,320	170	261	948	166	143	1	69	3,891	1,247
1977	765	1,762	203	243	479	142	146	4	119	3,863	1,172
1978	652	1,897	285	334	654	92	90	1	70	4,075	1,308

NORTHERN INLAND COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Burbot	Chub	Lake Herring	Lake Trout	Lake Whitefish	Northern Pike	Sucker (Mullet)	Yellow Pickerel	Other Species	Total	Total \$
1974	156	31	77	13	478	294	348	414	172	1,985	1,156
1975	156	31	27	18	561	244	395	436	172	2,039	1,333
1976	117	32	31	19	547	230	374	457	132	1,940	1,667
1977	176	45	41	16	612	256	453	709	709	2,446	2,217
1978	164	43	46	20	737	298	385	467	192	2,352	2,053
by Species in 000s lbs and \$000s											
1974	347	69	172	29	1,063	654	773	921	383	4,411	1,156
1975	346	68	61	39	1,246	543	878	969	382	4,532	1,333
1976	259	72	68	42	1,216	512	832	1,016	293	4,310	1,667
1977	392	101	91	36	1,361	568	1,006	1,575	306	5,436	2,217
1978	364	95	103	45	1,638	663	856	1,038	424	5,226	2,053

SOUTHERN INLAND COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Lake Whitelish	Rock Bass & Crappie	Sucker (Mullet)	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total \$
1974	54	62	....	6	13	34	1	16	16	203	95
1975	64	46	....	7	6	28	3	10	16	181	110
1976	59	44	....	8	4	30	9	18	9	178	125
1977	58	47	....	5	6	18	6	11	16	168	117
1978	41	58	....	4	1	15	3	6	12	140	103

by species in 000s lbs and \$000s

Year	119	138	....	13	31	76	3	36	35	451	95
1975	143	103	....	16	14	62	6	22	36	402	110
1976	130	98	....	15	9	66	19	39	19	395	125
1977	129	109	....	11	14	48	14	25	36	373	117
1978	92	130	....	9	2	34	6	13	26	312	103

EMPLOYMENT AND INVESTMENT IN ONTARIO COMMERCIAL FISHERY

Year	Men	Boats 40' and Over	Boats Under 40'	Gill Nets			Trap Nets	Hoop Nets	Seine m yds 000s	Nets and Ice 00s	Wharves Houses	Piers	Sheds	New Investment \$000s	Total Value \$000s
				m	000s	yds 000s									
1974	2,208	176	992	9,420	10,302	117	455	1,574	5.9	64	326	287	515	1,438	16,779
1975	2,220	198	966	9,251	10,117	104	466	1,715	69	76	323	250	477	1,557	18,254
1976	2,171	207	895	9,927	10,856	71	460	1,523	75	82	327	257	461	1,807	21,651
1977	2,213	209	946	10,191	11,145	120	504	1,532	69	75	303	278	450	2,195	23,775
1978	2,231	206	1,017	11,145	12,189	141	473	2,459	73	80	329	262	447	2,446	27,056

LANDS AND WATERS GROUP

Room W-6626, Main Office.

Telephone (416) 965-0998.

Executive Co-ordinator	H. A. Clarke	W-6613.....0998
Secretary	Ms. H. Cobden	W-6623.....6046
Administration	J. Botterill	W-6613.....2724

LANDS ADMINISTRATION BRANCH

Room W-6450, Main Office.

Telephone (416) 965-1316.

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Eastern Ont. Mining Claims Inspector	D. H. Leaper	(705) 743-6489
31 Springbrook Drive, Kawartha Heights, Peterborough L9J 1L3		
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Land Acquisition Officer	J. Brazas	W-6628.....2738
Property Management	L. Hall	W-6628.....2738
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Land Titles Documents	C. D. Egerton	W-6502.....1319
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Records Officer	R. E. Dixon	W-6501.....1319
Manager, Land Records	J. G. Sherman	W-6501.....1319
Resource Access Co-ordinator	J. M. Small	W-5606.....5735

LANDS ACQUIRED BY CROWN — Areas in hectares and acres in years ending March 31

Year	Provincial Tax Forfeitures			Cancellation of Sales			Purchased or Otherwise Acquired			Acreage Tax Forfeitures		
	ha	Ac	ha	Ac	ha	Ac	ha	Ac	ha	Ac	ha	Ac
1975	336	831	2	5	5,286	13,062	5,624	13,898	11,331	28,000		
1976	268	662	0.4	1	2,325	5,744	2,593	6,407	10,931	27,012		
1977	6	16			1,121	2,771	1,128	2,787	10,117	25,000		
1978	1	2			4,995	12,344	4,999	12,354	10,147	25,073		
1979					2,075	5,128	2,076	5,129	22,663	56,000		

USE OF ACQUIRED LANDS — Areas in hectares and acres in years ending March 31

Year	Provincial Parks			Access Points			Wilderness Areas			Sport Fisheries			Wildlife Management			Timber Management			District Imprvmts			Total		
	ha	Ac	ha	Ac	ha	Ac	ha	Ac	ha	Ac	ha	Ac	ha	Ac	ha	Ac	ha	Ac	ha	Ac	ha	Ac	ha	Ac
1975	4,192	10,359	4	10	20	50	0.8	2	985	2,435	81	200	2	6	5,286	13,062								
1976	2,108	5,209	12	29	35	86	6	16	163	403	....	....	....	....	....	....	....	....	....	....	....	....	2,324
1977	637	1,573	141	348	....	....	81	200	248	613	1.6	4	....	....	....	....	....	....	....	....	....	....	5,743
1978	548	1,353	4	10	....	....	....	....	111	275	4,333	10,706	....	....	....	....	....	....	....	....	....	....	1,108
1979	1,994	4,927	....	....	....	....	....	....	....	....	3	7	79	194	....	....	....	....	....	....	....	....	4,995

PUBLIC LAND — Areas in hectares and acres in years ending March 31

Year	Patents			Leases			Licences of Occupation		
	No.	ha	Ac	No.	ha	Ac	No.	ha	Ac
1975	230	1,108	2,738	656	550	1,359	88	341	843
1976	275	1,831	4,524	439	507	1,253	70	1,624	4,014
1977	256	2,248	5,554	197	593	1,465	141	10,220	25,255
1978	189	1,070	2,643	311	291	719	165	2,909	7,188
1979	126	523	1,293	63	99	245	79	3,580	8,847

MINING LANDS — Areas in hectares and acres in years ending March 31

Year	Patents			Renewals			Leases		
	No.	ha	Ac	No.	ha	Ac	No.	ha	Ac
1975	210	4,810	11,887	99	9,396	23,218
1976	142	2,690	6,649	61	10,581	26,145
1977	221	3,130	7,735	141	19,537	48,278
1978	131	2,337	5,775	92	15,344	37,915
1979	137	2,049	5,062	53	3,923	9,695

Year	Surface Rights			Licences of Occupation			Quit Claim Deeds and Regrants		
	No.	ha	Ac	No.	ha	Ac	No.	ha	Ac
1975	3	119	295	1	3,936	9,725	32	660,508	1,632,150
1976	.....	.....	.....	3	43,419	107,290	21	459,079	1,134,408
1977	4	196	484	3	8,713	21,530	20	463,770	1,146,000
1978	1	37	92	5	803,827	1,986,300	119	3,349	8,275
1979	1	37	92	2	27,694	69,100	142	3,764	9,300

PROSPECTING ACTIVITIES — in years ending March 31

Year	Mining Claims			Assessment Work (Days)	Quarry Permits Issued	Miners Licences	
	Recorded	Cancelled	In Good Standing			Issued	Renewed
1975	20,343	20,003	47,795	799,980	799	1,145	2,044
1976	20,290	14,879	44,096	697,297	764	1,128	2,590
1977	21,046	21,108	49,099	672,386	789	1,170	2,418
1978	14,747	20,786	41,548	644,811	1,087	943	2,000
1979	13,041	16,444	37,669	752,155	1,178	991	1,723

LANDS AND WATERS GROUP

SURVEYS AND MAPPING BRANCH

Room W-6602, Main Office. Telephone (416) 965-6225.

Branch Director, Surveyor General	Robert G. Code	W-6602 ... 6225
Surveying Services, General Manager	S. B. Panting	W-6604 ... 4538
Surveys Manager	M. Berman	W-6643 ... 2714
Crown Surveys and Examination ..	J. E. Hietala	W-6644 ... 2714
Survey Research, Descriptions ..	J. P. Campbell	W-6641 ... 2714
Control Survey Agreements Officer ..	D. E. Norris	W-6641 ... 2714
Survey Records Information	D. E. Jeanes	W-6645 ... 7058
Geographical Referencing Coordinator	J. Kerr	W-6601 ... 4538
Mathematical Adjustments, Head	Z. Gulamhussein	W-4041 ... 4538
Mapping Services General Manager	J. Haddon	W-2624 ... 4941
Cartographic Services Manager	F. W. Dawson	W-2622 ... 4743
Drafting Services Manager	W. J. Clark	W-6521 ... 7108
Nomenclature Services Manager	M. B. Smart	W-2542 ... 6515
Basic Mapping Manager	B. Jackson	W-2623 ... 1208
Ontario Centre for Remote Sensing	V. Zsilinszky	8411
880 Bay Street, Toronto, Ontario M5S 1Z8	S. Pala	8411
Associate Director	A. Boissonneau	8411
Research and Training Supervisor	R. Mussakowski	8411
Research Forester	E. Wedler	8411
Research Geologist	J. Narraway	8411
Research Engineer	D. Bates	8411
Remote Sensing Research Assistant	G. Lawrence	8411
Applications Supervisor	A. Jano	8411
Thermography Specialist	T. Ellis	8411
Environmental Specialist	J. Watts	8411
Land Use Capability Specialists	W. Jenns	8411
Technology Supervisor	A. Giannelia	8411
RS Airborne Program Specialist	B. Fitzpatrick	8411
Photo Research Lab Supervisor		

LANDS AND WATERS GROUP

LAND USE CO-ORDINATION BRANCH

Room W-3440, Main Office.

Telephone (416) 965-2899

Branch Director	R. A. Riley	W-3440 2899
Land Use Planning Section	M. S. Millar, Spvr	W-3440 2899
Plan Input and Review Specialist	J. C. Slot	W-3440 2899
Special Projects	E. M. Cressman, Spvr	W-3440 2899
Project Planner	J. R. M. Williams	W-3440 2899
Policy and Planning	D. J. Johnstone, Spvr	W-3440 5344
Program and Policy Officer	(vacant)	W-3440 2899

PLANS REVIEWED — in years ending March 31

Year	Specific Development Plans			Official Plans Amendments Zoning By-Laws
	Subdivision	Severance	Other	
1975	936	1,779	277	355
1976	1,324	2,149	687	601
1977	983	3,839	1,053	818
1978	1,614	4,558	566	986
1979	1,109	5,320	929	1,166

PLANNING PROJECTS — in years ending March 31

Year	Ministry Plans	Cottage Lots Plans	Plan Inputs
1975	74	.....	201
1976	27	1,091	186
1977	19	1,063	165
1978	34	1,749	181

SPECIAL LAND USE PROJECTS — in years ending March 31

Year	Ministry Projects	Other Agencies Projects
1977	1	3
1978	1	2
1979	3	2

CONSERVATION AUTHORITIES AND WATER MANAGEMENT BRANCH

Section 6, 5th Floor, Main Office. Telephone (416) 965-6285.

Branch Director	R. J. Burgar	Sect 6 ... 6287
Assistant Director, Policy Development	(vacant)	sect 6 ... 6285
Water Planning & Engineering	G. S. Sardesai, Head	Sect 6 ... 6277
Land Use Manager & Planner	S. A. Mathewson	Sect 6 ... 6275
Hydraulics Policy Specialist	L. J. Balogh	Sect 6 ... 6277
Hydrology Specialist	J. Y. Ding	W-5618 ... 6220
Cons, Rec & Community Relations	(vacant)	Sect 6 ... 6275
Assistant Director, Programming	J. S. Anderson	Sect 6 ... 6285
Financial Services	R. F. McDougal, Head	Sect * ... 7694
Conservation & Recreation	R. J. Dickie, Head	Sect 6 ... 1673
Land Mgmt	R. B. Chang, Head	Sect 6 ... 6295
Water Management and	K. Nitta	Sect 6 ... 6295
Programming	W. C. Thompson	W-5602 ... 6292
Hydraulics Specialist	Miss A. Perrigo	W-5635 ... 4481
Hydrometeorologist	Mrs. D. Green, Spvr	Sect 6 ... 6270
Library	Mrs. S. E. Court	W-5618 ... 1790
Administrative Support Services	R. M. Odell	W-5645 ... 1271
Youth Program Co-ordinator	T. M. Kurtz, Spvr	W-5646 ... 1271
Engineering Services	D. Strelchuk	W-5648 ... 1271
Audit and Design	W. J. McMullen	W-5647 ... 1271
Water Management	R. A. Weir	W-5649 ... 1271
Shore Management		
Private Dams, Diversions		
Special Services		

**GRANTS TO CONSERVATION AUTHORITIES
UNDER THE CONSERVATION AUTHORITIES ACT —** in years ending March 31

Year	Adminis- tration	Water and Related Land Mgmt	Conservation and Recreation Land Mgmt	Lake Ontario Waterfront	Total
	\$	\$	\$	\$	\$
1978*	3,984,064	4,289,982	16,713,608	2,495,641	27,483,295
1979	4,357,441	22,439,889	3,973,686	1,559,792	32,330,808

HYDRAULIC STRUCTURES OPERATED — in years ending March 31

Year	Dams and Fishways	Docks	Navigation Aids	Total
1978	201	.....	17	218
1979	202	.....	17	209

HYDRAULICS STRUCTURES MAINTAINED — in years ending March 31

Year	Dams and Fishways	Docks	Navigation Aids	Total
1978	302	122	20	444
1979	303	124	20	447

*A revised Policy, Procedure and Information Manual, which became effective in January, 1977, combined several of the capital programs reported separately in previous years.

ONTARIO CONSERVATION AUTHORITIES
SUMMARY OF 1978 STATISTICAL REPORTS (Totals for 38 Authorities)

LAND HOLDINGS

Classification	Purchased 1978		Total in 1978	
	ha	Ac	ha	Ac
Water and Related Land Management				
Valley lands, reservoir lands	558	1,394	26,846	67,116
Agreement forest	107	268	39,676	99,190
Wetlands, sensitive lands	579	1,448	12,097	30,244
Forest (Non-agreement)	154	386	5,689	14,223
Other	32	80	1,034	2,584
Conservation and Recreation Land Mgmt				
Niagara Escarpment	23	57	3,736	9,339
All other conservation lands	800	2,000	19,470	48,667
Total	2,253	5,633	108,548	271,373

WATER AND RELATED LAND MANAGEMENTS

Water Control Structures*	Completed 1978		Total in 1978	
	m	ft	m	ft
Channel Improvements	13,837	45,399	168,540	552,979
Watercourse diking	5,400	17,719	74,601	240,066
Lakeshore diking	15,800	51,840	47,700	156,504
Streambank erosion control	19,212	63,034	40,627	133,297
(Other than under Conservation Services)				
Dams owned or operated by Authorities: 192.				

Agricultural Land*	ha	Ac
Total rented or managed by Authorities	6,363	15,907
Conservation Services		
Properties Involved in Projects		
Conservation plans	17	
Streambank, gully erosion, grassed waterways	39	
Reforestation	570	
Other (including technical assistance)	234	

Flood Plain Regulations

Authorities with approved Regulations	24
Municipalities covered by Regulations	215
Floodline and fill line mapping completed in 1978*	
Area covered by floodline mapping	1,038,987 ha (2,567,336 ac)
Area covered by fill line mapping	1,628,956 ha (4,025,150 ac)

ENFORCEMENT OF REGULATIONS (Section 27)

Regulations Violations	
Action Taken	
Warning notices issued	233
Violations issued	166
Court proceedings	57

*Inconsistent or incomplete data.

Permits	
Requested	1,473
Granted	1,272
Refused	70
Appeals to Minister	16
Authority decisions upheld	13

Plan Review

MUNICIPAL PLANS

Reviewed	15,937
Recommended for approval	
No conditions	9,921*
With conditions	3,774*
Not recommended for approval	654*
Authority recommendations accepted (re: conditions or non-approval)	3,729*

AUTHORITIES COMMENTING DIRECTLY

to a decision-making agency	36
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FLOOD CONTINGENCY PLAN

Authorities with a plan	35
Percentage of member municipalities having no emergency by-laws to implement plans	56*

Water Quality

Water-Quality Monitoring Program

Authorities with program in co-operation with MOE	22
Total number in stations	320

* Inconsistent or incomplete data.

CONSERVATION AND RECREATION PROGRAMS

Recreational Areas	No.	ha	Ac
Land area actively managed	244	8,390	20,711
Plans	No.	ha	Ac
Areas with approval Master Plans	61	6,853	16,921
Areas without approved plans	269	4,848	11,971
Facilities and Use	No.		
DAY USE			
User days		3,808,476*	
Picnic tables (not in campsites)		17,295*	
OVERNIGHT USE		915,038*	
Camper days		2,407*	
Serviced campsites		5,114*	
Unserviced campsites			
TRAILS			
	km	Summer mi	Winter mi
Pedestrian	896	556	687
Motorized vehicles	80	50	405
Equestrian	123	76	.....
Conservation Services	Authorities No.	Properties No.	
Habitat improvement	6	67	
Other	8	210	

* Inconsistent or incomplete data.

FINANCIAL SUMMARY, 1978

Funds Available

Surplus from previous year	\$ 3,518,686
Ontario Government Ministries: Natural Resources*	34,862,951
Culture and Recreation	204,772
Housing	149,781
Agriculture and Food	391,149
Environment	157,140
Northern Affairs	1,764,000
Other	1,437,036
Municipal Levy	25,712,847
Board of Education	441,756
Federal Government	267,657
Donations, Trusts, Foundations	715,179
Revenue	5,025,030
Other	1,602,114
Deficit at year end	317,643
TOTAL	\$76,567,741

Funding Allocations

Deficit from previous year	\$ 69,405
Water and Related Land Management	
Land Acquisition	\$ 6,549,612
Development & other	25,823,085
Sub-total	<u>32,372,697</u>
	32,372,697
Conservation and Recreation Land Management	
Land Acquisition	\$ 1,532,184
Development & other	5,900,560
Sub-total	<u>7,432,744</u>
	7,432,744
Administration	7,394,317
Maintenance	8,912,036
Historic Sites	549,353
Other	16,476,142
Surplus at year end	3,361,057
TOTAL	\$76,567,741

* Including Experience '78.

OFFICE OF INDIAN RESOURCE POLICY

Room W-6625, Main Office.

Telephone (416) 965-6045.

Branch Director	E. G. Wilson	W-6625 ... 6045
Senior Indian Land Claims Researcher	D. T. McNab	W-5620 . 1271
Indian Land Claims Researcher	L. G. Ugarenjo	W-5620 ... 1271
Indian Land Claims Researcher	A. Ireland-Smith	W-5620....1271

AVIATION AND FIRE MANAGEMENT CENTRE

Box 310, Sault Ste. Marie, Ontario P6A 5L8

Telephone (705) 942-1800. Telex 067-77166, 067-77134

Director	W. L. Sleeman	(705) 942-1800
Finance and Administration Supervisor	W. A. Sinclair	1800
Purchasing Officer	H. J. McMillan	1800
Fire Management Section	W. H. Forman, Spvr	1800
Provincial Fire Operations	(vacant)	1800
Project Management	R. J. Drysdale, Spvr	1800
Fire Management Education Co-ordinator	R. B. Little	1800
Chief Pilot	W. K. Warner	1800
Maintenance Superintendent	G. Willoughby	1800
Assistant Supt, Maintenance		
Airframe Section	S. J. Denley	1800
Engine Section	P. F. Holder	1800
Quality Control Inspector	D. J. Moffat	1800
Communications Supervisor	J. Scotland	1800
Flight Ops Officer, Malton Airbase	W. C. Clarke	(416) 678-1172

FOREST FIRE RECORD — Areas in hectares (acres in light face)

Year	Damage	Private Property Damage	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
1917	\$.....	\$.....	155,466	1,110	140
					384,164		346
1918	12,210	965	12
					30,172		31
1919	373,186	1,780	210
					922,161		518
1920	145,222	1,287	113
					358,851		279
1921	303,326	1,269	239
					749,534		591
1922	140,099	1,021	151
					346,193		339
1923	857,995	1,343	639
					2,120,148		1,579
1924	55,091	851	69
					146,017		171
1925	76,705	1,149	67
					189,543		165
1926	26,664	9,100	35,764	1,110	32
			65,888	22,486	88,374		80
1927	9,216	5,248	14,464	924	16
			22,772	12,970	35,742		39
1928	39,026	1,598	40,624	536	76
			96,436	3,947	100,383		187
1929	246,353	6,836	253,189	1,550	163
			608,750	16,893	625,643		404
1930	144,688	143,371	288,059	1,402	206
			357,531	354,278	711,809		508
1931	42,843	13,120	55,963	1,851	30
			105,866	32,421	138,287		75
1932	253,558	21,232	274,790	2,073	133
			626,555	52,466	679,021		328
1933	131,537	10,086	141,623	1,919	74
			325,034	24,924	349,958		182
1934	64,891	15,493	80,384	1,568	51
			160,348	38,285	198,633		127
1935	74,090	27,309	101,439	1,309	77
			183,179	67,483	250,662		191
1936	466,957	44,741	511,698	2,264	226
			1,153,876	110,557	1,264,433		558
1937	81,701	9,251	90,952	1,453	63
			201,887	22,859	224,746		155
1938	38,918	17,028	55,946	1,292	43
			96,168	42,077	138,245		107
1939	10,558	1,218	11,776	961	12
			26,089	3,009	29,098		30
1940	40,869	8,346	49,215	1,014	49
			100,990	20,624	121,614		120

FOREST FIRE RECORD — Areas in hectares (acres in light face)

Year	Damage	Private Property Damage	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
1941	\$	\$	109,991	159,751	269,742	1,265	213
			271,793	394,754	666,547		527
1942	.....	.....	31,448	14,571	46,019	1,224	38
			77,709	36,007	113,716		93
1943	.....	.....	13,543	7,831	21,374	624	34
			33,465	19,352	52,817		85
1944	.....	.....	29,635	38,713	68,348	1,137	60
			73,228	95,663	168,891		149
1945	.....	.....	7,283	12,348	19,631	966	20
			17,997	30,513	48,510		50
1946	.....	.....	18,072	12,995	31,877	1,739	18
			44,656	32,113	78,769		44
1947	.....	.....	15,416	18,591	34,007	1,393	24
			38,093	45,939	84,032		60
1948	.....	.....	345,917	65,806	411,723	2,036	202
			854,778	162,611	1,017,389		500
1949	.....	.....	16,427	7,880	24,307	1,834	13
			40,593	19,472	60,065		33
1950	55,148	103,682	5,343	9,541	14,884	985	15
			13,203	23,577	36,780		37
1951	389,447	56,389	39,118	1,854	40,972	904	45
			96,662	4,581	101,243		112
1952	29,504	31,347	2,940	2,087	5,027	1,095	4
			7,264	5,157	12,421		11
1953	393,874	81,778	18,016	5,782	23,508	1,520	16
			44,519	14,290	58,089		39
1954	406,241	15,650	14,615	7,518	22,133	881	25
			36,115	18,578	54,693		62
1955	3,591,680	184,940	150,118	10,309	160,427	2,252	71
			370,948	25,475	396,423		176
1956	3,068,152	22,319	89,768	1,777	91,545	1,017	90
			221,822	4,390	226,212		222
1957	463,059	113,751	9,814	9,065	18,879	1,671	11
			24,250	22,401	46,651		28
1958	311,503	97,036	10,337	4,496	14,833	1,558	10
			25,544	11,108	36,652		24
1959	22,041	20,757	1,044	1,093	2,137	1,029	2
			2,580	2,701	5,281		5
1960	438,094	56,442	11,813	888	12,701	956	13
			29,190	2,196	31,386		33
1961	31,989,802	152,639	477,894	1,549	479,433	1,305	367
			1,180,900	3,828	1,184,728		908
1962	74,748	99,165	3,069	2,517	5,586	1,521	4
			7,583	6,221	13,804		9
1963	706,888	39,932	16,467	6,251	22,718	1,885	12
			40,692	15,446	56,138		30

FOREST FIRE RECORD — Areas in hectares (acres in light face)

Year	Damage	Private Property Damage	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
1964	\$ 500,296	\$ 19,792	9,090	2,291	11,381	1,829	6
			22,463	5,661	28,124		15
1965	386,850	254,105	6,068	1,987	8,055	1,218	6
			14,995	4,909	19,904		16
1966	71,521	49,457	3,421	2,413	5,834	1,921	3
			8,453	5,962	14,415		8
1967	1,353,919	87,638	23,768	1,930	25,698	1,465	17
			58,733	4,769	63,502		43
1968	4,174	54,146	1,078	2,751	3,829	1,219	3
			2,665	6,796	9,461		8
1969	134,756	4,623	1,813	669	2,482	901	3
			4,481	1,653	6,134		7
1970	1,323,041	28,815	.....	.....	23,537	1,239	18
			.....	.....	58,160		45
1971	462,064	75,875	.....	.....	14,649	1,790	8
			.....	.....	36,199		20
1972	1,081,876	47,446	.....	.....	32,029	1,604	20
			.....	.....	79,145		49
1973	11,944	121,900	2,417	1,190	3,607	1,111	3
			5,973	2,940	8,913		8
1974	12,063,428	239,384	522,641	1,346	523,987	1,625	323
			1,291,473	3,327	1,294,800		797
1975	683,726	340,414	11,226	5,630	16,856	3,146	5
			27,740	13,911	41,651		13
1976	26,839,738	930,514	536,529	7,578	544,107	3,985	136
			1,325,791	18,726	1,344,517		337
1977	11,190,900	252,565	411,752	4,564	416,316	2,049	203
			1,017,460	11,279	1,028,739		502
1978	165,267	139,386	7,040	483	7,523	940	8
			17,397	1,194	18,591		20

1978 FOREST FIRES BY DISTRICTS

District	Number of Fires	Hectares Burned Over	ha per Fire	Acres Burned Over	Ac per Fire
Dryden	27	67.7	2.5	167.4	6.2
Fort Frances	9	15.8	1.7	39.0	4.3
Ignace	6	101.3	16.9	250.2	41.7
Kenora	41	12.5	.3	30.9	.8
Red Lake	12	749.0	62.4	1,850.7	154.2
Sioux Lookout	22	5.6	.2	13.9	.6
Atikokan	12	6.6	.6	16.3	1.4
Geraldton	22	4,091.1	186.0	10,109.2	459.5
Nipigon	9	2.3	.2	5.8	.6
Terrace Bay	13	131.0	10.1	323.6	24.9
Thunder Bay	53	146.3	2.8	361.6	6.8
White River	2	.1	.0	.2	.1
Chapleau	10	51.9	5.2	128.3	12.8
Cochrane	4	.2	.0	.4	.1
Gogama	18	103.8	5.7	256.4	14.2
Hearst	8	39.6	4.9	97.9	12.2
Kapuskasing	2	2.8	1.4	7.0	3.5
Kirkland Lake	24	296.9	12.4	733.7	30.6
Moosonee	4	25.2	6.3	62.2	15.6
Timmins	8	7.6	1.0	18.8	2.4
Blind River	16	25.0	1.6	61.8	3.9
Espanola	28	20.2	.8	49.9	1.8
North Bay	44	103.5	2.3	255.7	5.8
Sault Ste. Marie	16	45.0	2.8	111.1	6.9
Sudbury	113	150.5	1.3	371.9	3.3
Temagami	26	24.8	1.0	61.3	2.4
Wawa	25	246.7	9.9	609.6	24.4
Algonquin Park	53	272.6	5.1	673.7	12.7
Bancroft	27	87.0	3.2	215.1	8.0
Bracebridge	35	8.3	.2	20.6	.6
Minden	36	19.1	.5	47.2	1.3
Parry Sound	34	29.9	.9	73.8	2.2
Pembroke	64	446.9	7.0	1,104.3	17.3
Lanark	15	9.7	.6	23.9	1.6
Tweed	72	141.0	1.9	348.4	4.8
Huronia	7	7.5	1.1	18.6	2.7
Lindsay	11	1.0	.1	2.5	.2
Owen Sound	12	27.5	2.3	67.9	5.7
Total	940	7,523.4	8.0	18,590.8	19.8

1978 FOREST FIRES BY MONTHS

Month	Number of Fires	Hectares Burned Over	ha per Fire	Acres Burned Over	Ac per Fire
March	49	73.7	1.5	182.0	3.7
April	261	4,028.1	15.4	9,953.6	38.1
May	101	1,569.0	15.5	3,877.2	38.4
June	274	659.2	2.4	1,628.8	5.9
July	126	276.0	2.2	682.0	5.4
August	21	2.7	.1	6.6	.3
September	41	15.4	.4	38.0	.9
October	67	899.5	13.4	2,222.6	33.2
November .....	.....	.....	.....	.....	.....
Total	940	7,523.4	8.0	18,590.8	19.8

DETECTION OF FOREST FIRES

Agencies of Detection	1974	1975	1976	1977	1978
Towers	8	6	5	2	0
Ministry Aircraft	406	1,003	1,294	425	136
Total Organized Dtn	414	1,009	1,299	427	136
Public	1,093	1,876	1,948	1,434	750
Other Aircraft	118	261	738	188	54
Total Random Dtn	1,211	2,137	2,686	1,622	804
Total Fires	1,625	3,146	3,985	2,049	940
% age, Organized Dtn	25	32	33	21	14

SIZES OF FOREST FIRES

Area Burned Over	1974	1975	1976	1977	1978
Up to 1/4 .....Acres	711	1,426	1,957	811	470
Over 1/4 to 10 .....Acres	713	1,444	1,625	1,006	390
Over 10 to 100 .....Acres	112	222	224	157	57
Over 100 to 500 .....Acres	29	39	78	29	18
Over 500 .....Acres	60	15	101	46	5
Total Fires	1,625	3,146	3,985	2,049	940

PROSECUTIONS

Actions re Forest Fires	1974	1975	1976	1977	1978
Prosecutions	68	67	103	112	27
Convictions	56	57	81	103	27

CAUSES OF FOREST FIRES — I

GENERAL CAUSES	1974	1975	1976	1977	1978
Recreation	412	966	816	530	359
Resident	223	281	251	280	91
Incendiary	19	43	55	55	35
Railways	158	288	359	257	147
Industry (Forest)	17	38	33	18	19
Industry (Other)	22	54	32	32	21
Miscellaneous (Known)	177	353	281	310	87
Unknown	51	80	72	40	16
Lightning	546	1,043	2,086	527	165
Total Fires	1,625	3,146	3,985	2,049	940

CAUSES OF FOREST FIRES — II

SOURCE OF IGNITION	1974	1975	1976	1977	1978
Smoking Materials	264	532	410	380	171
Camp Fires	184	484	403	222	186
Matches	120	234	240	195	80
Fireworks	2	3	1	2	1
Explosives	1	3	1	2	—
Fusee	19	10	10	8	2
Prescribed Burning	3	1	1	—	2
Dump Ashes, Coals	7	13	9	5	5
Burning Grass	75	100	61	50	17
Burning Brush	30	49	59	59	39
Burning Rubbish	50	61	44	40	15
Burning Garbage Dump	29	48	68	40	8
Burning Bulldozed Pile	3	3	9	4	—
Burning Sawdust Pile	1	6	2	3	—
Burning Ties	6	8	19	12	11
Burning Right of Way	5	11	5	18	3
Locomotive, Diesel	7	66	56	38	39
Locomotive, Steam .....	.....	1	.....	—	—
Brake Shoe	90	162	192	141	66
Hot Box	3	6	8	3	—
Power Saw	4	5	11	5	1
Mechanical Equipment	25	35	37	43	30
Power Line (Short)	18	29	23	65	15
Sparks from Chimney	3	6	4	4	—
Sparks from Burner	5	1	—	1	1
Structural Fires	11	22	16	21	11
Miscellaneous (Known)	22	50	59	49	19
Unknown	93	154	152	112	54
Lightning	546	1,043	2,085	527	164
Total Fires	1,625	3,146	3,985	2,049	940

CAUSES OF FOREST FIRES — III

RESPONSIBLE GROUPS	1974	1975	1976	1977	1978
RECREATION					
Fishermen	125	271	254	141	110
Hunters	13	75	73	9	69
Canoeists	20	68	45	29	17
Campers	52	171	114	77	55
Picnickers	13	18	21	15	7
Berry Pickers	88	172	147	62	48
TRAVELLERS					
Car Passengers	67	159	87	126	38
Hikers	29	66	51	66	17
Train Passengers	1	4	5	—	—
Guided Parties	1	2	—	1	1
RESIDENTS					
Farmers	18	37	30	31	14
Rural Residents	142	156	136	137	47
Urban Residents	9	14	13	14	4
Private Cottagers	39	58	48	70	27
Resort Owners	1	6	3	3	1
Indians (on Reserves)	10	14	47	21	5
VOCATION					
Trappers .....	.....	1	1	1	2
Prospectors	2	3	1	1	—
Timber Cruisers .....	.....	1	1	—	—
Survey Parties .....	.....	1	2	—	—
Military	1	.....	1	2	1
EMPLOYEE OF—					
Woods Industry	17	30	26	19	16
Mining	3	3	—	5	1
Pipeline .....	.....	—	—	—	—
Hydro	4	11	11	6	4
Telephone .....	.....	—	—	1	1
Highway or Road	2	5	6	2	—
R.R. Section Crew	15	15	34	37	15
R.R. Train Crew	127	241	273	31	21
R.R. Work Crew	9	11	31	185	111
Other Industry	5	25	9	12	9
Natural Resources	8	10	13	10	5
Other Prov Government .....	.....	1	1	1	1
Federal Government	1	.....	—	—	—
Municipality	2	4	2	7	—
MISCELLANEOUS					
Children	111	187	172	172	48
Youth Camps .....	.....	5	—	3	—
Miscellaneous (Known)	35	71	64	94	28
Unknown	108	190	177	130	51
Total Man-Caused Fires	1,078	2,103	1,899	1,522	775
Percentage of All Fires	66	67	48	74	82

AIR SERVICE SUMMARY — I — Hours Flown in years ending March 31

Year	Fire Ranging	Timber	Fish and Wildlife	Surveys	Lands	Parks
1975	5,840	59	3,384	412	631	850
1976	5,204	1,354	3,901	195	709	884
1977	6,611	994	3,418	181	628	571
1978	3,149	1,127	3,775	287	1,088	538
1979	3,340	1,290	4,731	182	735	662
1924-79 Total	232,293	33,839	102,078	2,403	13,210	11,907

Year	Research	Inter- Ministry	Photo	Mercy Flights	Miscellaneous	Total
1975	.....	1,162	.....	41	3,076	15,455.2
1976	77	1,689	490	66	2,404	16,972.7
1977	506	1,400	463	46	3,003	17,820.8
1978	482	3,123	479	15	1,953	16,015.0
1979	105	2,652	578	25	364	14,633.6
1924-79 Total	8,703	27,116	5,075	1,774	159,785	598,183.1

AIR SERVICE SUMMARY — II — in years ending March 31

Year	Mercy Flights	Passengers Carried	Flight Crew	Loads Carried	
				Metric Tons	Tons & Pounds
1975	19	26,558	17,156	11,509.694	12,686 1,531
1976	27	30,497	6,834	9,766.234	10,765 515
1977	22	29,756	7,327	19,926.786	21,976 1,732
1978	10	28,639	7,731	783.006	863 13
1979	3	27,937	7,552	806.745	888 1,643
1924-79					
Total	515	1,090,281	373,011	206,301.607	227,408 1,338

ADMINISTRATION

Room W-6345, Main Office. Telephone (416) 965-7106.

Assistant Deputy Minister	J. W. Keenan	W-6345 7106
Secretary	Miss Y. Watier	W-6345 7106
Finance and Administration Group Executive Co-ordinator	G. D. Spry	W-6343 6148
Program Management Evaluation Executive Co-ordinator	D. P. Drysdale	W-5446 5537
Management Improvement Plan Director	D. M. Wood	W-6341 4143
Human Resources Planning Director	H. B. Farrant	W-1544 0323
Program Analysis Co-ordinator	M. W. Cox	W-6350 4218
Program Analyst	L. Bailey	W-6350 4218
Program Analyst	G. E. Doan	W-6350 4218

FINANCE AND ADMINISTRATION GROUP

Room W-6343, Main Office. Telephone (416) 965-6148.

Executive Co-ordinator	G. D. Spry	W-6343 ... 6148
Secretary	Mrs. C. Caddell	W-6343 ... 6147
Budget and Financial Analysis Unit ..	D. M. Powers	W-5445 ... 9052
	J. Heywood	W-5444 ... 9052
	F. G. Da Silva	W-5444 ... 9052
Systems Co-ordinator	C. K. Moulson	W-2545 ... 5674
Women's Co-ordinator	Mrs. E. Rhodes	W-5441 ... 5663

FINANCIAL SERVICES BRANCH

Room W-4324, Main Office. Telephone (416) 965-2761

Branch Director	A. C. Goddard	W-4324 ... 2761
Financial Methods Section	G. Jarzabek	W-4420 ... 1218
Chief Accountant (Acting)	I. A. Nott	W-4323 ... 2761
Accounts Payable Section	J. T. Tunnicliff	W-4340 ... 2764
Expenditure Control	R. Kerr	W-4321 ... 1895
Financial Reporting and Claims Section	M. Toivonen	W-4322 ... 1895
IPPEB Section	K. D. Plouffe	W-4421 ... 2766
Chief Officer, Revenue (Acting)	F. S. Bumstead	W-4322 ... 2761
Fish & Wildlife Licences Section	T. Headley	W-4341 ... 2814
Mining Revenue Section	K. H. Stahl	W-4442 ... 1314
Revenue Accounts and Security Deposits Section	F. J. Morrell	W-4443 ... 2770
Revenue Receiving Section	V. St. Onge	W-4303 ... 4451

REVENUE AND EXPENDITURES — in years ending March 31

Year	Total General Revenue	Total Budgetary Expenditure
1975	\$ 201,149,345	\$ 190,475,669
1976	128,404,521	207,981,416
1977	109,345,882	239,442,268
1978	99,733,072	242,207,223
1979	129,401,477	246,388,247

LANDS REVENUE — in years ending March 31

Year	Water Power	Crown Land Sales	Crown Land Rentals	Park Rentals & Fees	Pits and Quarries Licences	Land Use Permits
1975	\$	\$ 161,522	\$ 447,042	\$ 31,170	\$ 73,625	\$ 296,733
1976	12,747,346	223,013	546,844	48,597	94,900	348,108
1977	12,988,363	966,881	618,509	47,604	89,675	398,755
1978	13,715,920	158,100	686,992	44,931	89,300	401,880
1979	16,132,257	762,394	741,831	41,672	109,175	440,550

Year	Assignments & Extension Fees	Cons. Authorities Federal Agreements	Return of Grants	Recovery Prior Years Land Aquisition	Misc.	Total
1975	\$ 13,803	\$ 877,029	\$ 488,156	\$ 54,548	\$ 5,381	\$ 2,449,009
1976	10,302	559,784	29,312	39,163	137,918	14,785,287
1977	15,345	325,308	55,900	159,515	34,978	15,700,833
1978	39,562	1,100,177	12,629	18,987	14,380	16,282,858
1979	29,906	575,491	127,846	5,402	40,437	19,006,961

TIMBER REVENUE — in years ending March 31

Year	Stumpage Charges	Forest Protection Charges	Nursery Tree Sales	Agreement Forest	Federal Agreement	Misc.	Total
1975	\$ 20,014,603	1,970,833	200,566	\$ 215,046	695,063	\$ 10,908	\$ 23,107,019
1976	23,835,666	2,597,098	182,157	123,309	314,113	55,208	27,107,551
1977	25,923,527	1,883,792	174,538	206,150	406,922	93,673	28,688,602
1978	30,776,425	2,232,462	213,095	253,492	982,418	76,098	34,533,990
1979	37,193,516	1,832,965	242,380	494,525	795,530	96,966	40,655,882

MINING REVENUE — in years ending March 31

Year	Licences and Permits	Mining Claims	Sale of Mining Lands	Rentals	Royalties	Taxes	For-fiefures	Laboratory Fees	Rec. of Prior Years Expenditure	Total
1975	\$ 74,551	343,316	1,691	\$ 990,396	\$ 763,939	\$ 152,802,601	\$ 4,900	\$ 122,902	\$ 96,215	\$ 155,200,511
1976	88,024	347,669	1,517	750,291	836,305	63,081,453	4,350	119,866	180,242	65,409,717
1977	75,420	334,256	32,015	656,009	819,967	41,652,820	3,470	98,161	74,595	43,746,713
1978	81,295	280,417	17,870	802,480	1,065,821	22,919,376	4,210	70,698	1,074	25,243,241
1979	60,875	254,066	8,236	827,911	1,380,839	42,372,537	3,360	80,499	125,394	45,113,717

PROVINCIAL PARKS REVENUE — in years ending March 31

Year	Permits	Campsite Permits	Concessions Rental	St. Lawrence Lic & Permits	Federal Agreement	Frost Centre	Misc.	Total
1975	\$ 693,184	3,743,651	242,660	\$ 1,459,828	\$ 68,882	\$ 173,450	\$ 199,513	\$ 6,617,168
1976	726,356	3,997,858	299,644	1,521,710	44,359	244,010	18,273	6,852,210
1977	671,464	3,835,840	317,043	1,398,060	241,060	257,117	22,551	6,743,135
1978	729,408	3,753,880	350,837	1,432,275	421,208	292,358	69,865	7,049,831
1979	913,499	5,238,214	371,071	1,791,382	288,258	230,637	168,961	9,002,022

FISH AND WILDLIFE REVENUE — in years ending March 31

Year	Non-Resident Angling	Other Fishing	Commercial Fishing	Non-Res Hunting	Resident Bear	Resident Deer	Resident Moose	Resident Groundhog	Res (Gun) Hunting
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1975 4,680,140	69,308	91,083	2,582,421	7,298	806,438	1,189,524	71,151	947,986	
1976 5,599,835	94,704	89,679	2,004,314	8,023	827,601	1,170,402	75,331	994,772	
1977 5,473,577	102,250	89,817	2,046,136	9,541	787,631	1,182,597	81,743	977,262	
1978 5,603,400	93,838	95,125	1,766,613	9,466	863,246	1,056,029	75,678	997,357	
1979 5,825,469	104,533	96,832	1,935,617	12,489	886,363	1,235,920	80,624	1,022,792	

Year	Dog	Trappers	Fur Dealers	Hunter Exam Fee	Prov Park Hunting	Misc Fees & Licences	Royalty Game	Agencies	Agreements Federal	Total
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1975 16,708	45,817	2,800	106,614	32,859	117,510	310,968	7,650	293,037	11,379,312	
1976 16,238	45,705	2,990	113,247	34,295	79,201	284,203	19,778	75,360	11,535,678	
1977 16,141	51,910	3,565	98,301	36,843	64,752	432,988	26,239	266,200	11,747,493	
1978 15,681	52,969	5,965	105,339	59,800	95,806	666,789	18,636	321,114	11,902,851	
1979 17,252	62,177	7,750	101,613	67,312	97,424	562,619	1,070	309,919	12,427,775	

OTHER CASH RECEIPTS — in years ending March 31

Year	Sale of Maps Publications etc.	Fire Costs Recovered	House Rentals	Sale of Buildings	Sale of Van & Eqpt	Confiscated Articles	Non-recurring Items and Misc.	Total
\$	\$	\$	\$	\$	\$	\$	\$	\$
1975 1,440,079	80,305	347,971	85,488	9,861	41,489	391,133	2,396,326	
1976 1,530,779	295,449	394,240	25,757	146,579	32,742	288,532	2,714,078	
1977 1,626,975	298,653	352,369	24,933	296,483	60,173	59,520	2,719,106	
1978 1,817,587	835,720	457,659	16,177	875,868	84,033	633,257	4,720,301	
1979 1,931,946	391,611	436,711	23,784	224,918	32,445	153,705	3,195,120	

FINANCE AND ADMINISTRATION GROUP

INTERNAL AUDIT SERVICES BRANCH

Room W-4663, Main Office.

Telephone (416) 965-4087

Branch Director	A.A. Ward	W-4637 4087
Main Office Audit Manager	D. L. Lay	W-4636 4088
Northeastern Audit Section 875 Queen Street East Sault Ste. Marie, P6A 2B3 Audit Manager	I. C. Livingstone	(705) 942-1418 (IC 842)
Northwestern Audit Section Box 5000 Thunder Bay, P7C 5G6 Audit Manager	N. D. Nurse	(807) 475-1211 (IC 844)
Southern Audit Section c/o District Office Maple, L0J 1E0 Audit Manager	D. A. Dooling	(416) 832-2761 Ext 281

FINANCE AND ADMINISTRATION GROUP

INFORMATION SERVICES BRANCH

Room W-5340, Main Office. Telephone (416) 965-2756.

Branch Director	F. Moritsugu	W-5352 3315
Information & Liaison Section	K. Robertson, Spvr	W-5353 . 2756
Editing & Publications Section	K. Robertson, Spvr	W-5353 ... 2756
Audio Visual & Films Section	L. P. Bondy, Spvr	W-5354.. 2756
Photography	W. G. Lanning, Mgr	W-5343 2758
Exhibits & Administration Section	Mrs. E. H. Brown, Spvr ..	W-5351.... 1281

FINANCE AND ADMINISTRATION GROUP

PERSONNEL SERVICES BRANCH

Room W-4520, Main Office.

Telephone (416) 965-3825.

Branch Director (Acting)	A. Jackel	W-4527.....3828
Manpower Section	M. K. Szulc	W-4612 ... 2707
Manpower Planning & Dev. Unit	C. H. Bennett	W-4604 ... 2707
Staffing	R. Butcher	W-4606 ... 2707
Unclassified Staff & Comp. Control	C. Peterson	W-4605 ... 2707
Junior Ranger and Youth Programs	Mrs. R. Kelly	W-4603 ... 2707
Compensation Section	Miss N. Miller	W-4602 ... 2707
Personnel Records	E. Yhap	W-4613 ... 2707
Classification and Records	M. T. Campbell	W-1545.....1258
Accounting and Benefits	M. Lucyk	W-1545.....1258
Employee Relations (Acting)	J. A. Temple	W-4506.....6091
Safety Program Development	R. Fletcher	W-4505.....6091
	R. McIlveen	W-4502.....6091
	Mrs. C. Mahon	W-4528.....9951
	Miss L. Flann	W-4520.....3961
	Miss N. Davidson	W-4522.....3961
	A. J. Bennett	W-4526.....3825
	J. Hastings	W-4523.....5771

STAFF SUMMARY

Staff at March 31	1975	1976	1977	1978	1979
Regular Staff	3,305	3,793	3,603	3,614	3,919
Probationary Staff	779	256	302	250	456
Unclassified Staff	1,910	2,309	2,103	2,051	1,698
Total Staff	5,994	6,358	6,008	5,915	6,073
Main Office Staff	1,285	1,258	1,172	906	930
Field Office Staff	4,709	2,766	2,733	2,958	3,445
New Employees	386	356	234	250	862
Deceased	11	15	18	9	8
Superannuated	80	74	84	95	97
Transferred	21	58	112	49	32
Resigned	206	134	131	91	146
Dismissed	1	0	1	1	0
Released .....	.....	.....	2	1	4
Miscellaneous	25	0	9	0	0
Total Separations	344	281	355	246	287
Biologists	115	111	114	123	150
Economists	8	9	8	7	9
Engineers	24	35	31	12	9
Foresters	240	259	289	288	287
Geologists	58	56	56	66	57
Mining Engineers	32	31	35	0	0
Park Planners	23	26	24	42	29
Scientists, Research Scientists	50	59	49	55	48
Miscellaneous	42	43	73	54	50
Professional Staff	592	629	679	649	639
Air Engineers	40	38	37	37	42
Cartographers	28	25	20	32	19
Communication Technicians	34	33	34	24	21
Community Planners .....	.....	.....	.....	31	50
Construction Superintendents	11	11	10	8	8
Draftsmen	77	70	50	41	41
Geologist Assistants	14	13	14	14	17
Inspectors, Mining Claims	6	6	6	6	6
Laboratory Technicians	34	28	22	20	20
Mechanics	54	52	54	55	56
Mining Recorders	31	30	6	5	6
Pilots	37	36	38	38	37
Resource Managers	25	21	22	24	23
Resource Technicians	1,512	1,521	1,507	1,512	1,663
Safety Instruction Officers	13	14	10	12	13
Scalers, licensed	876	872	1,333	1,165	1,164
Junior Rangers	1,618	1,618	1,606	1,918	1,968

FINANCE AND ADMINISTRATION GROUP

ADMINISTRATIVE SERVICES BRANCH

Room W-5528, Main Office

Telephone (416) 965-2711

Branch Director	J. A. Queen	W-5528	2711
Services Section	F. W. Love, Mgr	W-5526	4600
Conferences, Hospitality, Parking	Mrs. V. K. Walker	W-5525	6166
Office Management	H. L. Bembridge, Spvr	W-5301	5134
Public Service Centre	Miss M. I. Leuty, Spvr	W-1640	6511
Data Processing	R. Khan, Spvr	W-5420	0116
Fleet Management	L. Krol, Spvr	W-5504	1255
General Inquiry (MNR), Whitney Block Information Booth			2000
Supply Section	R. Armstrong, Mgr	W-5529	3317
Purchasing	J. May, Spvr	W-5531	1601
Central Supply Warehouse 733 King Street West	R. M. Toms, Spvr		1286
Records & Forms Management Section	A. J. Lesser, Mgr.	W-5422	3822
Accommodation Section	G. Laivenieks, Mgr.	W-5423	4645

VEHICLES AND EQUIPMENT IN SERVICE — in year ending March 31, 1979

Type	Fixed Complement	*Number in Operation
Subcompact Cars and Station Wagons	1	1
Compact Cars and Station Wagons	92	102
Full-size Cars and Station Wagons	159	162
Standard and Extended Pickups	687	739
Four-wheel-Drive Vehicles	224	239
Crew Cabs and Cargo Vans	91	96
Passenger Vans and Personnel Carriers	112	120
Buses	9	9
Cab and Chassis — 10,000 GVW	84	87
Cab and Chassis — over 10,000 GVW	162	167
Cab and Chassis — specialized bodies	32	32
TOTAL	1,653	1,754
Motorcycles	35	35
Trailers (boat and equipment)	907	907
Trailers (refrigerated)	23	23
Snowmobiles	546	571
Tractors	332	334

*Number includes replacements and vehicles to be disposed of.

FINANCE AND ADMINISTRATION GROUP

LEGAL SERVICES BRANCH*

Room W-6420, Main Office. Telephone (416) 965-2748.

Director	M. S. Smith	W-6427	2748
Solicitors	W. E. D. Peters	W-6425	2748
	W. J. Obelyncki	W-6424	2748
	L. A. Low	W-6426	2749
	D. G. Searle	W-6423	2749
	B. G. Jones	W-6422	2749
	T. N. Trow	W-6428	2749

*The Legal Services Branch staff are on the complement of the Ministry of the Attorney General and are assigned to the Ministry of Natural Resources.

LEGISLATION

The Acts administered by the Ministry are as follows.

LANDS AND WATER GROUP

THE BEDS OF NAVIGABLE WATERS ACT (sometimes referred to as the "Cochrane Act") is declaratory legislation relating to title in the beds of navigable waters. It followed the decision in the 1911 case of Keewatin Power versus The Town of Kenora. By the Act, the beds are deemed not to have passed to the grantee of bordering Crown land in the absence of an express grant.

THE ONTARIO GEOGRAPHIC NAMES BOARD ACT provides for the establishment of a Geographic Names Board for Ontario having the duty to gather information respecting the names of places and geographical features, make recommendations thereon, collaborate with the Canadian Permanent Committee on Geographic Names, and provide information to government departments, etc. The Minister may approve a recommended name and thereupon it shall be used by all government departments and agencies in the preparation of maps and other publications.

THE ONTARIO HARBOURS AGREEMENT ACT, 1962-3, confirms on behalf of Ontario the agreement between Ontario and Canada establishing the harbours which were public harbours at Confederation, providing that mines and minerals therein are administered by Ontario and confirming grants and quit claims listed therein. The federal harbours are Amherstburg, Belleville, Brockville, Chatham, Collingwood, Fort William, Gananoque, Goderich, Kincardine, Kingston, Kingsville, Leamington, Oshawa, Owen Sound, Penetanguishene, Port Arthur, Port Burwell, Port Hope, Port Stanley, Prescott, Rondeau Bay, Sarnia, Sault Ste. Marie, Southampton, Toronto, Whitby and Windsor.

THE PUBLIC LANDS ACT provides for: (1) A Public Agricultural Lands Committee to recommend on agricultural lands and their settlement, replacing the regulations on this subject; (2) The deposition of Crown land for a variety of purposes by sale, lease or licence, and by auction or tender; (3) The management of Crown land by the Ministry by zoning for land use, setting apart for public use, research, etc., and through agreements with municipalities on beaches and water lots; (4) The administration of roads on Crown lands including the designation of public forest roads and agreements with occupiers of private forest roads respecting the use by the public of private forest roads; (5) The administration and control of the construction and maintenance of dams; (6) The granting of water powers and privileges.

THE SURVEYORS ACT deals with the Association of Ontario Land Surveyors and the rules governing membership and conduct. The Minister or his appointee and the Surveyor-General are members of the Council of Management.

THE SURVEYS ACT defines the system of surveys and the rules for surveyors. The Minister orders surveys made on his volition or upon application to settle disputes or lost lines, etc.; after hearing evidence, he confirms the surveys, with or without amendment. His decision is subject to appeal to a judge of the Supreme Court.

THE NORTH GEORGIAN BAY RECREATIONAL RESERVE ACT, 1962-3, establishes the North Georgian Bay Recreational Reserve and provides for the planning and development thereof and the appointment of a committee to advise the Minister thereon.

THE MINING ACT with respect to: the administration of public lands for mining purposes; the issuing of licences and leases relating to exploration and drilling for, and the production of, minerals and oil and natural gas; the staking and recording of mining claims; and the rights of licensees and lessees under the Act. An acreage tax is levied under this Act. (See under Mineral Resources Group).

THE BEACH PROTECTION ACT prohibits the removal of sand from the bed, bank, beach, shore or waters of any lake, river or stream in Ontario except under the authority of a licence issued under the Act. Licensees may be required to pay a fixed sum per yard of sand removed from property of the Crown.

THE CANADA COMPANY'S LAND ACT, 1922, empowers the Crown to sell and convey to purchasers of lands from the Canada Company the mineral rights in the lands.

THE LAKES AND RIVERS IMPROVEMENT ACT deals with: the construction, repair and use of dams; timber driving; and timber slide companies and tolls. The Minister is charged with the responsibility of settling disputes between conflicting users under certain circumstances. An officer may be appointed to regulate the use of waters or works.

THE CONSERVATION AUTHORITIES ACT provides for the establishment of conservation authorities for the purpose of establishing and undertaking in the area over which they are given jurisdiction a program designed to further the conservation, restoration, development and management of natural resources other than gas, oil, coal and minerals.

FOREST RESOURCES GROUP

THE CROWN TIMBER ACT provides for the granting of licences by the Minister to cut Crown timber on the licensed area when tenders are called, or in a salvage operation, or where the stumpage charges are less than \$2,000.00 or by way of short renewals; and by the Minister, with the approval of the Lieutenant-Governor in Council, in other cases.

In contrast to licensed area, Crown Management Units may be established and agreements entered into for the supply of Crown timber. Under this arrangement, the party to the agreement does not have exclusive rights in a specific area until a licence is granted to him to fill his requirements for an operating season.

Basic Crown dues, forest protection charges and management charges are fixed by the regulations.

Other subjects dealt with are: forest management plans and practices; examination of scalers and licensing of scalers; licensing of mills; penalties for wasteful practices, unauthorized cutting, removal of timber before scaling, and other violations; and protection of the Crown's interest through seizure, statutory lien for Crown charges, etc.

THE FORESTRY ACT. Under this Act: (1) The Minister enters into agreements with landowners such as municipalities, conservation authorities and the National Capital Commission (Ottawa) to manage the forest lands; (2) Ministry tree nurseries are established and nursery stock distributed; (3) Private forest reserves are set up on private lands with the consent of the owner.

THE SETTLERS' PULPWOOD PROTECTION ACT provides for the regulation of the sale and of the price of pulpwood cut from settler's land.

THE SPRUCE PULPWOOD EXPORTATION ACT provides for the exportation (under the authority of an Order-in-Council) of spruce pulpwood from lands granted under special Acts which prohibited such export.

THE TREES ACT provides that, with the Minister's approval, municipalities may pass by-laws restricting and regulating the destruction of trees and appoint enforcement officers. Generally, by by-law, municipalities may acquire land for forestry purposes and enter into agreements for the management of such lands and related matters.

THE WOODLANDS IMPROVEMENT ACT provides for the Minister to enter into agreements with owners of lands suitable for forestry purposes and situate in a private forest management area for the planting of nursery stock or stand improvement.

THE WOODMEN'S EMPLOYMENT ACT authorizes the appointment of inspectors and the making of regulations respecting conditions in lumber camps.

THE WOODMEN'S LIEN FOR WAGES ACT provides a lien and a procedure to enforce such lien for persons performing labour on timber.

THE ALGONQUIN FORESTRY AUTHORITY ACT, 1974, establishes a corporation known as The Algonquin Forestry Authority to harvest Crown timber in Algonquin Provincial Park and public lands adjacent to the park, to sell the logs, and also to carry out such forestry, land management and other programs and projects as the Minister of Natural Resources authorizes.

THE FOREST TREE PEST CONTROL ACT provides for the control of outbreaks of forest tree insects and diseases on private lands.

MINERAL RESOURCES GROUP

THE MINING ACT with respect to the issuing and administration of exploratory licences and production leases for oil and natural gas on public lands in designated parts of Ontario; processing applications for exemptions from restrictions on foreign processing; refinery licences; and the regulation of mining operations conducted within Ontario except under Part IX. (Also see under Lands and Waters Group.)

THE PITS AND QUARRIES CONTROL ACT, 1971, provides for the regulation of pit and quarry operations in designated parts of Ontario. Operations in designated areas must be licensed under the Act and are subject to periodic review to assure compliance with the provisions of the Act, the regulations and site plan.

THE PETROLEUM RESOURCES ACT, 1971, sets forth licensing requirements for various aspects of oil and natural gas exploration, drilling and production and provides for the making of regulations respecting oil and gas conservation and the safe operation of drilling and production facilities.

THE MINING TAX ACT, 1972, imposes a real property tax on mines. For the purpose of levying such tax the mine is assessed on the output of the mine at the pit's mouth determined in accordance with the provisions of the Act.

THE INDUSTRIAL AND MINING LANDS COMPENSATION ACT provides for agreements between the owner or operator of a mine and the owner or lessee of any land for payment of compensation for any damage or injury resulting or likely to result to the land or to its use and enjoyment from the operation of the mine.

THE GAS AND OIL LEASES ACT sets out the procedure whereby a lessor under a gas or oil lease may, upon default by the lessee under the terms of the lease, obtain an order declaring the lease void.

OUTDOOR RECREATION GROUP

THE ENDANGERED SPECIES ACT, 1971, provides for the conservation, protection, restoration and propagation of species of flora and fauna of the Province of Ontario that are threatened with extinction.

THE GAME AND FISH ACT deals with the management of wildlife resources; game animals; game birds (upland); fur-bearing animals; frogs; and sale and rearing of game fish. The Act relates to: — open seasons for hunting and trapping; bag limits; Crown game preserves; offences and enforcement; the licensing of hunters, trappers, guides, persons operating game bird hunting preserves, and persons selling game fish for stocking and human consumption; the regulating of dogs used in hunting, aircraft transporting hunters, and conduct of hunters (hunter safety); and farmer-hunter relations. The Game and Fish Hearing Board was established under the Act on November 15, 1973.

THE FISH INSPECTION ACT is complementary to the Federal Act.

THE FISHERIES ACT (CANADA). Ontario Fishery Regulations are made under this Act. They relate to open seasons for angling and commercial fishing and the licences required. The form of licences and the fees are a provincial matter and are prescribed under The Game and Fish Act.

THE FISHERIES LOAN ACT provides for loans to persons carrying on the business of commercial fishing or any other business dependent in whole or in part on the taking of fish from waters in which such taking has been prohibited by reason of the contamination of fish resulting from pollution of the water. Provision is made for federal-provincial agreements respecting the sharing of such loans.

THE FRESHWATER FISH MARKETING ACT (ONTARIO) complements the Freshwater Fish Marketing Act (Canada). Through these Acts and the federal-provincial agreement, the Freshwater Fish Marketing Corporation established under the Federal Act is the sole purchaser of commercial fish, as defined in the Federal Act, taken in that part of Ontario designated in the regulations, i.e., that part of Ontario westerly of longitude 86° except the Territorial District of Rainy River but including that part of Lake of the Woods in the Territorial District of Rainy River. Sales to and purchases by persons for their own consumption or for consumption by persons or animals in the course of the purchaser's business are excepted.

THE WILD RICE HARVESTING ACT prohibits the harvesting of rice on Crown land except under the authority of a licence.

THE WOLF DAMAGE TO LIVESTOCK COMPENSATION ACT, 1972, provides for payment of compensation to the owners of livestock killed or injured by wolves.

THE MIGRATORY BIRDS CONVENTION ACT. Open seasons for migratory birds are set under this Act.

THE PROVINCIAL PARKS ACT provides for the establishment of provincial parks and their management and for certain employees having the authority of the O.P.P. in a provincial park. Advisory committees for one or more provincial parks may be appointed by the Minister with the approval of the Lieutenant-Governor in Council.

Parks may be classified as a natural environment park, a nature reserve park, a wilderness park, a recreational park, a waterways park, or an historical park. Any of these classes may be zoned with controlled use in zones.

Mining is prohibited in provincial parks except as provided in the regulations. The regulations on mining were revoked in 1956 but rights and interest existing at that time were preserved.

Hunting is prohibited in provincial parks except as provided in the regulations under The Game and Fish Act or where the prohibition is removed by designation of the Lieutenant-Governor in Council under The Provincial Parks Act. This does not apply to the Townships of Bruton and Clyde (added to Algonquin Provincial Park by a Special Act).

Concession leases are granted under the Act. The Province calls for tenders for buildings and facilities.

Vehicle admission charge is \$2.00 per day or \$20.00 for the season. Campsite charges are \$5.00 per day, or \$5.50 per day where comfort station facilities are available, and \$7.00 per day for campsites with electrical power. The charge for an extra car on a campsite is \$3.00 per day. On unorganized campsites in park interiors, the charge is \$3.00 per boat per day.

This Act does not apply to any park under the management of the Niagara Parks Commission, the St. Lawrence Parks Commission or the St. Clair Parkway Commission.

THE WILDERNESS AREAS ACT was passed on March 26, 1959, to preserve areas having some unique feature. Development or utilization of the natural resources in an area more than 260 ha (640 acres) in size is not affected by this Act.

THE PARKS ASSISTANCE ACT provides for the establishment of parks in municipalities or in territory without municipal organization. The Minister may with the approval of the Lieutenant-Governor in Council make grants not exceeding 50% of the cost of acquiring land and developing such parks. The parks established under the Act are to be maintained and operated in a manner complementary to provincial parks.

AVIATION AND FIRE MANAGEMENT CENTRE

THE FOREST FIRES PREVENTION ACT applies to the 20 fire regions set up by regulation. The fire season, from April 1st to October 31st, may be extended by regulation. Fire permits are required during the fire season to start fires in a fire region except for fires set out for cooking or warmth and to ignite fireworks in or within 300m (1,000 feet) of a forest or woodland. Work permits are required at any time of the year for carrying on logging, mining, and industrial operation, clearing, etc. in or within 300m (1,000 feet) of a forest or woodland. Areas may be established as restricted fire zones in which fires will be restricted to portable stoves and barbecues or as restricted travel zones in which a permit will be required except on public roads, cities, towns, villages, police villages, supervised camping grounds and waters adjacent thereto or emergency areas in which the Minister may make orders for the safety and evacuation of persons. The Minister may enter into agreements with Canada, any province, any federal or provincial agency and municipality respecting the prevention and control of forest fires. The regulations establish fire precautions.

GENERAL

THE MINISTRY OF NATURAL RESOURCES ACT, 1972, established as of April 1, 1972, the new Ministry of Natural Resources which included the former Department of Lands and Forests and Department of Mines and Northern Affairs and repealed the provisions of a number of Acts on which the departments previously depended for administrative authority. Effective November 1, 1973, the Act provides for the appointment of a Mining and Lands Commissioner and advisory committees.

THE ST. CLAIR PARKWAY COMMISSION ACT, 1966, established the St. Clair Parkway Commission as a corporation without share capital for the purpose of developing, controlling, managing, operating and maintaining lands acquired by, vested in or placed under the control of the Commission in the Counties of Kent and Lambton and in the Cities of Chatham and Sarnia.

THE ST. LAWRENCE PARKS COMMISSION ACT continues the St. Lawrence Parks Commission as a corporation without share capital for the purpose of developing, controlling, managing, operating and maintaining lands vested in or placed under the control of the Commission in the Counties of Glengarry, Stormont, Dundas, Grenville, Frontenac, Lennox and Addington, and Leeds.

THE NIAGARA PARKS ACT continues the Niagara Parks Commission as a corporation for the purpose of managing, controlling and developing those parks or other lands vested in or placed under the control of the Commission.

THE LAKE OF THE WOODS CONTROL BOARD ACT, 1922, is complementary to a Federal Act of 1921. It deals with the regulation of the water levels of the Winnipeg River, the English River, Lac Seul and Lake St. Joseph. The Board was created following a report in 1917 by the International Joint Commission which was established under a treaty made in 1909 between United States and Great Britain. The membership of the Board consists of a Federal representative and one from Manitoba and two from Ontario. One Ontario member is appointed by the Ontario Hydro. The other is R. M. Odell, Head, Consultative Services, Conservation Authorities and Water Management Branch, Ministry of Natural Resources, with R. B. Chang as alternate member.

The Board has the duty to secure severally and at all times the most dependable flow and the most advantageous and beneficial use of the Winnipeg and English Rivers and, for that purpose, to regulate the overflow of:

- (a) Lake of the Woods, to levels recommended by the International Joint Commission as agreed by Canada and the United States;
- (b) Lac Seul, to levels recommended by the Board and approved by the Lieutenant-Governors in Council of Ontario and Manitoba and to regulate the flow into Lac Seul through the Lake St. Joseph diversion.

(c) Winnipeg River, between its junction with the English River and Lake of the Woods, and the English River between its junction with the Winnipeg River and Lac Seul; and

(d) Other waters of the watershed of the Winnipeg River as are placed under its jurisdiction by the Governor-General in Council and the Lieutenant-Governors in Council of Ontario and Manitoba.

THE LAC SEUL CONSERVATION ACT, 1928, provides for the execution of an agreement between the Minister of Lands and Forests and the Government of Canada regarding the construction of a conservation dam at the outlet of Lac Seul.

THE OTTAWA RIVER WATER POWERS ACT, 1943, ratifies and confirms an agreement between the Province of Ontario, the Province of Quebec, the Hydro-Electric Power Commission of Ontario and the Quebec Streams Commission respecting the development of water power on the Ottawa River.

THE SEINE RIVER DIVERSION ACT, 1952, confirms the partial diversion of the Seine River and authorizes the completion and operation of the diversion by Steep Rock Iron Mines Limited.

THE NATIONAL RADIO OBSERVATORY ACT, 1962-3, provides for the transfer of administration and control of certain public lands in the Township of White, District of Nipissing, to Canada for the maintenance and operation of a national radio observatory.

THE GANANOQUE LANDS ACT, 1961-2, vests certain lands in the Town of Gananoque in the Crown and authorizes the sale of encroachments to adjoining owners for a fee of \$50.00 and the granting of the balance of the land.

THE ALGONQUIN PROVINCIAL PARK EXTENSION ACT, 1960-1, adds the public lands in the Geographic Townships of Bruton and Clyde in the Provincial County of Haliburton to the park, subject to hunting.

THE MINERAL EMBLEM ACT, 1975, adopts the amethyst as the mineral emblem of the Province of Ontario.

NORTHWESTERN REGION

G. A. McCormack	Regional Director	Box 5160, 808 Robertson St. Kenora, Ont P9N 3X9	Phone (807) 468-3111
R. M. Monzon	Deputy Reg Director		
D. R. Fortner	Deputy Reg Director		
G. N. McGeachy	Admin Coord	G. Brown	Forester
K. J. Chambers	Biologist	G. G. Pyzer	Lands Co-ord
R. V. Brady	Fire Mgt Officer	R. Balkwill	Parks & Rec Co-ord
R. C. Beard	Geologist	S. O. Russell	Eng Services Co-ord
D. A. Janes	Geologist, Sioux Lookout	W. Buchan	Mining Lands Admin.

Region Service Centre, G. M. Fenelon, Box 850 Dryden

Phone (807) 937-4489

Dryden Forest Station, T. R. Myland, Box 90, Wabigoon

Phone (807) 938-6326

KENORA DISTRICT

Box 5080, 808 Robertson St., Kenora Ont P9N 3X9	Phone (807) 468-9841
D. B. McGregor	District Manager
L. Bent	Administration
D. Philippi	Field Services
G. K. Winterton	Fish & Wildlife
W. H. Mills	Forests
T. J. Lunny	Lands
R. W. Paterick	Parks

SIOUX LOOKOUT DISTRICT

Box 309, Sioux Lookout Ont P0V 2T0	Phone (807) 737-1140
J. F. Goodman	District Manager
W. L. Bertrand	Administration
H. D. Morrison	Field Services
A. A. Martin	Fish & Wildlife
J. M. McIntyre	Forests
F. E. Brown	Lands & Parks

RED LAKE DISTRICT

Box 323, Highway 105, Red Lake, Ont P0V 2M0	Phone (807) 727-2531
E. W. Everley	District Manager
G. C. Carlson	Administration
P. D. Drysdale	Fish, Wildlife, Parks
P. R. Gagnon	Forests
T. Campbell	Field Services
E. R. Keast	Lands

FORT FRANCES DISTRICT

922 Scott Street, Fort Frances Ont P9A 1J4	Phone (807) 274-5337
J. K. Cleaveley	District Manager
B. Y. Katerick	Administration
S. E. Cameron	Field Services
E. J. Swift	Fish & Wildlife & Parks
A. P. Matiece	Forests
C. E. Horne	Lands

DRYDEN DISTRICT

Box 3000, Ontario Govt Bldg, Dryden Ont P8N 3B3	Phone (807) 223-3341
H. P. Endress	District Manager
J. Hamilton	Administration
A. MacDonald	Field Services
J. Moore	Fish & Wildlife
G. Schultz	Forests
D. Lindstrom	Lands & Parks

IGNACE DISTRICT

Box 448, Ignace Ont P0T 1T0	Phone (807) 934-2233
T. E. Dodds	District Manager
W. A. Brunton	Administration
P. R. Croskery	Fish & Wildlife
(vacant)	Forests
J. D. Bond	Field Services, Lands, Parks
P. J. Pincombe	Lands, Parks

NORTH CENTRAL REGION

R. A. Baxter	Regional Director	Box 5000, Ontario Government Building	
L. M. Affleck	Deputy Reg Director	435 James St. South, Thunder Bay 'F'	
W. Hendry	Deputy Reg Director	Ont P7C 5G6 Phone (807) 475-1261	
J. D. Chadwick	Admin Coord	1221	
C. A. Elsey	Biologist	1231	
A. B. Johnson	Fire Mgt Officer	1241R. B. Adamson Engineer	1301
J. F. Flowers	Forester	D. J. Murray Lands Coord	1321
D. A. Fawcett	Parks-Rec Coord	K. G. Fenwick Geologist	1331
Dorion Trout Rearing Station, H. Manson		Phone (807) 857-2322	
Regional Fire Centre, R. Kincaid		Phone (807) 475-1405	
Thunder Bay Forest Station, A. Wynia		Phone (807) 577-6409	

THUNDER BAY DISTRICT

Box 5000, Thunder Bay 'F'	
Ont P7C 5G6	Phone (807) 475-1501
(vacant)	District Manager
L. O. Keller	Administration
(vacant)	Field Services
R. T. Thomson	Fish & Wildlife
R. G. Klein	Forests
T. Leveque	Parks & Rec
J. W. Suttie	Lands

ATIKOKAN DISTRICT

108 Saturn Avenue, Atikokan	
Ont P0T 1C0	Phone (807) 597-6971
A. M. Harjula	District Manager
B. A. Prince	Administration
F. Dustak	Field Services
B. H. Gibson	Fish & Wildlife
A. G. Dougall	Forests
D. H. Elder	Lands & Parks

WHITE RIVER DISTRICT

608 Elgin St., White River	
Ont P0M 3G0	Phone (807) 822-2250
D. O'Grady	District Manager
(vacant)	Administration
K. Fuller	Field Services
R. Jerrard	Fish & Wildlife
D. E. Fry	Forests
G. H. Tabobundune	Lands & Parks

GERALDTON DISTRICT

Box 640, Geraldton,	
Ont P0T 1M0	Phone (807) 854-1030
J. D. Walker	District Manager
L. S. Morrow	Administration
I. A. Cameron	Field Services
E. H. Stone	Fish & Wildlife
D. Jovic	Forests
A. Hoshino	Lands & Parks

NIPIGON DISTRICT

Box 970, Nipigon	
Ont P0T 2J0	Phone (807) 887-2120
G. O. Koistinen	District Manager
M. Wilson	Administration
W. R. Doyon	Field Services
L. Townes	Fish & Wildlife
G. Marek	Forests
G. T. Bean	Lands & Parks

TERRACE BAY DISTRICT

Box 280, Terrace Bay,	
Ont P0T 2W0	Phone (807) 825-3205
D. O'Grady	District Manager
G. K. Sidhu	Administration
B. J. Lapenskie	Field Services
J. A. Chappel	Fish & Wildlife
T. B. Scott	Lands & Parks
Manitouwadge Work Centre	
Box 309, Manitouwadge	
Ont P0T 2C0	Phone (807) 826-3225
L. Skinkle	Forests
C. J. Currie	Fire Control

NORTHERN REGION

G. P. Elliott	Regional Director	Box 3000, 140 Fourth Ave., Cochrane,
L. H. Lingenfelter ..	Deputy Reg Director	Ont P0L 1C0 Phone (705) 272-4287
M. F. McKenzie ..	Biologist	D. W. Schafer
H. I. Mattson	Parks & Rec Co-ord	Deputy Reg Director 60 Wilson Avenue, Timmins,
4 Govt Rd E, Kirkland Lake		Ont P4N 3W2 Phone (705) 267-1401
Ont P2N 1A1	Phone (705) 567-5242	D. Jones
H. V. Lovell	Res Geologist	Fire Control Coord (vacant)
E. Craig	Mining Recorder	Geologist F. J. Wilson
		Lands Co-ord R. Barty
		Eng Services Co-ord M. R. Innes
		Forester P. Paradis
		Engineer Phone (705) 642-3255
		Phone (705) 544-2834
Swastika Forest Station, L. J. Forcier		
Hill Lake Trout Rearing Station, P. Graf		

COCHRANE DISTRICT

Box 730, 2 Third Ave, Cochrane	
Ont P0L 1C0	Phone (705) 272-4365
G. A. Wright	District Manger
G. Nantel	Administration
A. C. Hutchison	Field Services
W. Therriault	Outdoor Rec
J. Starr	Forests
F. Wright	Lands

CHAPLEAU DISTRICT

34 Birch Street, Chapleau	
Ont P0M 1K0	Phone (705) 864-1710
R. G. Elliott	District Manager
O. E. Crawford	Administration
J. R. Russell	Field Services
J. Chevalier	Fish & Wildlife
G. Oldford	Forests
J. P. Dick	Lands
G. W. Dingee	Parks & Rec

GOGAMA DISTRICT

Box 129, Gogama,	
Ont P0M 1W0 ..	Phone (705) 894-2000
C. Dionne	District Manager
V. Mathieu	Administration
M. Sitts	Field Services
C. Jessop	Fish & Wildlife
J. Powell	Forests
D. Stewart	Lands & Parks

HEARST DISTRICT

Box 670, 631 Front St., Hearst	
Ont P0L 1N0	Phone (705) 362-4346
C. E. Emblin	District Manager
W. C. Trowsse	Administration
L. G. Woods	Field Services
S. St. Jules	Fish & Wildlife
(vacant)	Forests
	362-4264
M. J. Girouard	Lands & Parks

KAPUSKASING DISTRICT

6 Government Road, Kapuskasing,	
Ont P5N 2W4	Phone (705) 335-6191
R. G. Lightheart	District Manager
A. Vos	Administration
K. Cleary	Field Services
S. Toole	Fish & wildlife
K. Cleary	Forests
D. Miller	Lands & Parks

KIRKLAND LAKE DISTRICT

Box 129, Swastika,	
Ont P0K 1T0	Phone (705) 642-3222
J. E. Hamilton	District Manager
J. S. Purves	Administration
W. G. Taylor	Field Services
J. F. Gardner	Fish & Wildlife
B. I. Thompson	Forests
J. A. Colquhoun	Lands
W. B. Hill	Parks

TIMMINS DISTRICT

896 Riverside Drive, Timmins,	
Ont P4N 3W2	Phone (705) 267-7951
A. F. Papineau	District Manager
F. Gervais	Administration
D. Shewen	Field Services
W. A. Sinclair	Fish & Wildlife
D. Jefferson	Forests
C. Biggar	Lands & Parks

MOOSONEE DISTRICT

Box 190, Moosonee,	
Ont P0L 1Y0	Phone (705) 336-2987
A. J. Stewart	District Manager
G. Sanderson	Administration
G. F. McAuley	Field Services
J. P. Prevett	Biologist

NORTHEASTERN REGION

W. G. Cleaveley ..	Regional Director	174 Douglas St West, Sudbury
D. J. Vance	Deputy Reg Director	Ont P3E 1G1 Phone (705) 673-1111
R. M. Christie	Deputy Reg Director	
J. C. Kindness	Admin Coord	W. Belisle
A. W. McClellan ..	Cons Auth Prg-Supr	J. L. Canfield
D. Jodouin	Mining Lands Admin	(vacant)
R. M. Charnesky ..	Mining Recorder Sault Ste. Marie (705)	H. Kresin
M. V. St. Jules	Mining Recrdr 254-6884	W. C. Stevens
Dr. P. E. Giblin ..	Geologist 942-1414	E. E. Multamaki
		(vacant)
		Parks-Rec Coord

Tarentorus Trout Rearing Station, D. V. Storms (S.S. Marie)	Phone (705) 253-8953
North Bay Trout Rearing Station, B. A. Marchant (North Bay)	Phone (705) 663-2311
Standfield Fish Hatchery, G. Clarke (Espanola)	Phone (705) 22-R-211

SAULT STE. MARIE DISTRICT

Box 130, 69 Church St, S.S. Marie	
Ont P6A 5L5 Phone (705) 949-1231	
J. H. Sellers	District Manager
H. J. Smith	Administration
L. G. Bell	Fire Control
E. A. Pozzo	Fish & Wildlife
F. Janser	Forests
I. J. Valentine	Lands
L. R. Davey	Parks

NORTH BAY DISTRICT

Box 3070, North Bay,	
Ont P1B 8K7 Phone (705) 474-5550	
E. Rogers	District Manager
G. E. Lacelle	Administration
(vacant)	Field Services
M. R. Wolfe	Fish & Wildlife
D. E. Honeyborne..	Forests
R. V. Coulombe	Lands
H. J. Edmundson ..	Parks

WAWA DISTRICT

Box 1160, Wawa	
Ont P0S 1K0 Phone (705) 856-2396	
W. J. Straight	District Manager
Mrs. J. M. Kern	Administration
A. J. Bull	Field Services
H. A. Orr	Outdoor Rec
C. K. Sumi	Forests
E. V. Uhler	Lands

TEMAGAMI DISTRICT

Box 38, Temagami,	
Ont P0H 2H0 Phone (705) 569-3622	
J. E. Rumney	District Manager
W. W. Hicks	Administration

SUDBURY DISTRICT

Box 3500, Stn A, Sudbury	
Ont P3A 4S2 Phone (705) 522-7823	
D. E. McHale	District Manager
M. H. Jackson	Administration
(vacant)	Field Services
(vacant)	Fish & Wildlife
D. R. Potvin	Forests
M. K. Smith	Lands
K. H. Moore	Parks

BLIND RIVER DISTRICT

Box 190, 62 Queen St, Blind River,	
Ont P0R 1B0 Phone (705) 356-2234	
D. L. Hagar	District Manager
F. McWhinnie	Administration
W. J. Davis	Field Services
S. B. Woodside	Fish & Wildlife
C. F. Husk	Forests
R. H. Wood	Lands
G. W. Connell	Parks

ESPAÑOLA DISTRICT

Box 1340, Espanola,	
Ont P0P 1C0 Phone (705) 869-1330	
E. N. Arbuckle	District Manager
F. J. Valiquette	Administration
D. R. Hughson	Outdoor Rec
J. F. Christian	Forests
D. C. Carnochan ..	Lands

H. G. Smith	Field Services
W. P. Brook	Forests
R. B. Sinclair	Lands & Parks
S. T. Flemming	Fish & Wildlife

ALGONQUIN REGION

K. K. Iriwawa Regional Director
 A. E. Walroth Deputy Reg Director
 R. H. Hamblly Deputy Reg Director
 J. Carswell Admin Coord
 C. W. Douglas Biologist
 A. P. Stephen Engineer
 B. Petman Fire Mgt Officer

Box 9000, Brendale Square, Huntsville,
 Ont P0A 1K0 Phone (705) 789-9611

H. J. Henry Forester
 J. R. Trusler Geologist
 J. K. Barker Lands Co-ord
 J. A. van der Meer Parks & Rec Co-ord

The Leslie M. Frost Natural Resources Centre, G. A. Hamilton .. Phone (705) 766-2451
 Pembroke Trout Rearing Station, A. G. Moore Phone (613) 687-5935
 Skeleton Lake Fish Hatchery, M. E. Beathune Phone (705) 769-3731

PARRY SOUND DISTRICT

4 Miller Street, Parry Sound
 Ont P2A 1S8 Phone (705) 746-2141
 W. J. Lovering District Manager
 G. F. Walter Administration
 C. R. Mumford Field Services 5825
 J. A. Macfie Fish & Wildlife
 G. C. Felton Forests
 J. A. Shalla Parks
 L. A. Connelly Lands

BANCROFT DISTRICT

Box 500, Bancroft,
 Ont K0L 1C0 Phone (613) 332-3940
 M. P. Barker District Manager
 H. E. Vance Administration
 M. F. Rush Field Services
 B. Collins Fish & Wildlife
 F. J. Walker Forests
 D. W. McLennan .. Parks
 O. Fleming Lands

ALGONQUIN PARK DISTRICT

Box 219, Whitney
 Ont K0J 2M0 Phone (705) 637-2780
 J. A. Simpson Park. Supt, Dist. Man.
 J. E. Growse Administration
 R. W. Stewart Fish & Wildlife
 D. F. George Forests
 J. E. Elliott Lands
 J. T. Griffin Alg Park Operations
 B. A. Norris Field Services

PEMBROKE DISTRICT

Box 220, Riverside Drive, Pembroke,
 Ont K8A 6X4 Phone (613) 732-3661
 L. J. Haas District Manager
 A. H. Plummer Administration
 C. R. Buske Field Services
 A. E. Armstrong Fish & Wildlife
 W. W. Wahl Forests
 E. N. McKenzie Lands & Mines
 G. D. Yarranton Parks

BRACEBRIDGE DISTRICT

Box 1138, Bracebridge,
 Ont P0B 1C0 Phone (705) 645-5244
 J. H. Lever District Manager
 J. A. Baird Administration
 J. T. Matthews Field Services
 D. M. Brooks Fish & Wildlife
 R. W. Taylor Forests
 J. A. Bryant Lands
 R. G. Ellis Parks

MINDEN DISTRICT

Minden,
 Ont K0M 2K0 Phone (705) 286-1521
 D. D. White District Manager
 R. E. Raby Administration
 T. Tussell Field Services
 B. G. Cross Fish & Wildlife
 B. G. Cross Forests
 J. E. Dewey Lands & Parks

EASTERN REGION

J. R. Oatway	Regional Director	Provincial Government Building, Concession Road, Kemptville
D. E. Gage	Deputy Reg Director	
S. R. Hamilton	Deputy Reg Director	
A. R. Taylor	Admin Coord	Ont K0G 1J0
(vacant)	Biologist	Phone (613) 258-3413
R. W. Beecher	Cons Auth Prg-Supr	W. G. Maslen
A. G. Thomas	Acting Engineer	Lands Co-ord
P. E. Anslow	Forester	J. G. Bell
		Parks & Rec Co-ord
Codrington Fish Hatchery, A. H. Draves		Dr. M. A. Klugman
White Lake Fish Hatchery, K. Steele		Mines Co-ord
Westport Fish Hatchery, G. E. Raine		J. W. Lloyd
G. Howard Ferguson Forest Station, A. J. Campbell		Field Services Co-ord
Codrington Fish Hatchery, A. H. Draves		Phone (613) 475-2512
White Lake Fish Hatchery, K. Steele		Phone (613) 335-2115
Westport Fish Hatchery, G. E. Raine		Phone (613) 273-2106
G. Howard Ferguson Forest Station, A. J. Campbell		Phone (613) 258-3413
TWEED DISTRICT		
Metcalfe Street, Tweed,		
Ont K0K 3J0	Phone (613) 478-2330	
W. Vonk	District Manager	1 Richmond Blvd, Napanee
G. J. O'Hearn	Administration	Ont K7R 3S3
W. F. Caverly	Lands	Phone (613) 354-2173
J. C. Williamson ..	Outdoor Rec	R. G. Bailey
W. M. Fasken	Forests	R. A. Armstrong
W. J. Miller	Field Services	W. A. Perrin
Dr. P. W. Kingston	Res Geologist	Forests, Field Serv
		R. G. Baldwin
		Fish & Wildlife
		R. Griffiths
		Lands
		J. C. Matheson
		Parks
LANARK DISTRICT		
Box 239, Lanark,		
Ont K0G 1K0	Phone (613) 259 2942	
J. R. Bailey	District Manager	101 Water St West, Brockville
G. N. Hill	Administration	Ont K6V 5Y8
H. K. von Rosen ..	Fish & Wildlife	Phone (613) 342-8524
J. D. McCready	Forests	R. H. Trotter
D. G. Kennedy	Field Services, Lands	D. G. Gilmer
K. J. Schonauer	Parks	G. L. Penney
		Fish & Wildlife
		H. H. de Vries
		Forests
		R. A. Lessard
		Field Services
		& Lands & Parks
OTTAWA DISTRICT		
Ramsayville,		
Ont K0A 2Y0	Phone (613) 822-2525	
W. D. Adlam	District Manager	Box 1749, 113 Amelia St, Cornwall
R. E. Brousseau ..	Administration	Ont K6H 5V7
R. N. Jones	Outdoor Rec	Phone (613) 933-1774
M. Schaefer	Forests	J. R. Morin
S. Johnston	Field Services, Lands	District Manager
T. W. Fletcher	Mineral Resources	W. J. Humphrys
		Administration
		W. R. Lannin
		Fish & Wildlife
		B. W. Warwick
		Forests
		K. E. Green
		Field Services, Parks
		B. W. McCue
		Lands

CENTRAL REGION

R. M. Dixon	Regional Director ..	295	10,670 Yonge Street, Richmond Hill	
A. D. Latornell	Dep Reg Director ..	297	Ont L4C 3C9 Phone (416) 884-9203	
D. R. Johnston	Dep Reg Director ..	290		
H. Tjoelker	Admin Coord	208	L. G. D. Thompson Mines Co-ord 232	
J. B. Dawson	Biologist	282	M. G. Lewis	Service Engineer 216
R. D. Hunter	Cons Auth Co-ord ..	206	H. J. Featherston ..	Parks-Rec Co-ord 299
R. N. Staley	Forester	289	J. F. Gosnell	Lands Co-ord 234

Midhurst Forest Station, Midhurst, C. R. Groves	Phone (705) 728-6599
Orono Forest Station, Orono, W. R. Bunting	Phone (416) 983-9147
Ontario Tree Seed Plant, Angus, R. B. Latimer	Phone (705) 424-5311
Deer Lake Fish Hatchery, R.R. 1, Havelock, G. Cation	Phone (705) 778-3391

MAPLE DISTRICT

Maple, Ont L0J 1E0	Phone (416) 832-2761	322 Kent St West, Lindsay, Ont K9V 4T7	Phone (705) 324-6121	
I. B. Earl	District Manager ..	203	C. R. Gray	District Manager
W. B. Pottelberg ..	Administration	300	A. V. Kaufman	Administration
D. M. Hogg	Fish & Wildlife	211	P. A. Smith	Fish & Wildlife
C. D. Simpson	Lands	208	T. Tworzyanski	Forests, Fld Serv
M. Charbonneau ..	Parks	240	M. L. Dick	Lands, Mineral Res.
Si Dae Kim	Forests, Fld Serv ..	224	R. W. Allen	Parks
R. N. Kervin	Mineral Resources	210		

HURONIA DISTRICT

Midhurst, Ont L0L 1X0	Phone (705) 728-2900
W. D. Mansell	District Manager
A. W. Smith	Fish & Wildlife
R. O. Brandes	Forests
D. R. MacArthur ..	Services
J. R. Winters	Parks

LINDSAY DISTRICT

Beaverdale Road, Cambridge, Ont N3C 2V3	Phone (519) 658-9355
W. R. Catton	District Manager
B. J. DeGunst	Administration
G. M. Tupling	Fish & Wildlife
R. C. A. Gilbert	Forests, Field Serv
R. J. Cleroux	Parks
W. D. Scott	Mineral Resources

NIAGARA DISTRICT

Box 1070, Highway No. 20, Fonthill, Ont L0S 1E0	Phone (416) 892-2656
J. E. Dickenson	District Manager
Mrs. J. T. Mace ..	Administration
E. A. Kraker	Forests, Fld Serv
H. D. Howell	Fish & Wildlife
L. C. Selby	Lands
D. A. Routly	Mineral Resources
R. J. Harvey	Parks

SOUTHWESTERN REGION

N. D. Patrick	Regional Director	1106 Dearness Drive, London,
J. M. Halpenny	Deputy Reg Director	Ont N6E 1N9 Phone (519) 681-5350
A. S. Holder	Deputy Reg Director	
D. W. Munch	Admin Coord	B. G. Bryant Mineral Resources
T. J. Millard	Biologist	J. A. Fingland Lands Co-ord
R. J. McClure	Cons Auth Prg-Supr	E. F. Murphy Parks & Rec Co-ord
P. H. Crook	Engineer	
E. P. Johnston	Forester	

Chatsworth Fish Hatchery, P. H. Hartman	Phone (519) 794-2340
Wiarton Fish Hatchery, C. Core	Phone (519) 534-0770
Normandale Fish Hatchery, W. A. Hooper	Phone (519) 426-3142
St. Williams Forest Station, R. E. Laupert	Phone (519) 586-3576
Petroleum Resources Lab, London, P. Palonen	Phone (519) 433-8431

CHATHAM DISTRICT

Box 1168, 435 Grand Ave West, Chatham, Ont N7M 5L8 Phone (519) 354-7340	
J. D. Parker	District Manager
H. Lehmann	Admin, Eng Services
J. K. Young	Fish & Wildlife
K. Yaraskavitch ..	Forests
P. A. Strassburger	Parks
H. W. Rowe	Lands, Min Resources

SIMCOE DISTRICT

'645 Norfolk Street North, Simcoe, Ont N3Y 3R2 Phone (519) 426-7650	
R. G. McGee	District Manager
E. McKenzie	Administration
J. M. Collins	Fish & Wildlife
D. A. Scott	Forests
T. L. Beck	Parks & Rec
W. L. Edwards	Lands, Eng Services
	Mineral Resources

OWEN SOUND DISTRICT

611 Ninth Ave East, Owen Sound, Ont N4K 3E4 ... Phone (519) 376-3860	
R. W. Tippett	District Manager
M. Gobeil	Administration
S. A. Munroe	Fish & Wildlife
V. W. Fisk	Forests
R. J. Manley	Lands, Min Resources
P. H. Baxter	Parks
E. G. Walker	Fire, Eng Services

WINGHAM DISTRICT

R.R. 5, Wingham Ont N0G 2W0	Phone(519) 357-3131
N. R. Richards	District Manager
B. G. Griffin	Administration
W. A. Creighton ...	Fish & Wildlife
H. R. Lancaster ...	Forests
A. D. Carr	Lands, Eng Services

AYLMER DISTRICT

353 Talbot Street West, Aylmer Ont N5H 2S8 Phone (519) 773-2423	
P. R. Davidson	District Manager
D. N. Stephens	Administration
G. R. Austin	Fish & Wildlife
W. C. Gilmore	Forest Resources
D. G. Ward	Parks, Lands
	Engineering Services
	Mineral Resources





Ministry of
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Ministry of
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Hon. James A. C. Auld
Minister
Dr. J. K. Reynolds
Deputy Minister

Statistical Reports

Prepared by Branches

- 3 **Ministry of Natural Resources**
 - 4 Office of Deputy Minister
 - 5 Ministry Regions and Districts
- 7 **Forest Resources Group**
 - 7 Forest Resources Branch
 - 17 Timber Sales Branch
- 29 **Mineral Resources Group**
 - 29 Ontario Geological Survey
 - 34 Mineral Resources Branch
- 39 **Outdoor Recreation Group**
 - 39 Wildlife Branch
 - 45 Parks and Recreational Areas Branch
 - 55 Fisheries Branch
- 71 **Lands and Waters Group**
 - 71 Land Management Branch
 - 74 Surveys and Mapping Branch
 - 76 Office of Indian Resource Policy
 - 77 Land Use Co-ordination Branch
 - 79 Conservation Authorities and Water Management Branch
- 85 **Aviation and Fire Management Centre**
- 95 **Administration Division**
 - 96 Information Services Branch
 - 97 Personnel Services Branch
 - 99 Administrative Services Branch
 - 101 Legal Services Branch
- 109 **Finance, Planning and Evaluation Group**
 - 109 Financial Services Branch
 - 113 Internal Audit Services Branch
 - 114 Budget and Program Analysis Branch
- 115 **Regions and Districts**
 - 115 Northwestern Region
 - 116 North Central Region
 - 117 Northern Region
 - 118 Northeastern Region
 - 119 Algonquin Region
 - 120 Eastern Region
 - 121 Central Region
 - 122 Southwestern Region

Cover Photo — Loading a helicopter with supplies and equipment for an isolated crew of forest fire fighters.

MINISTRY OF NATURAL RESOURCES*

Hon. James A. C. Auld	Minister of Natural Resources.
Dr. J. K. Reynolds	Deputy Minister.
G. A. McCormack	Assistant Deputy Minister, Northern Ontario.** Northwestern Region North Central Region Northern Region Northeastern Region Aviation and Fire Management Centre
W. T. Foster	Assistant Deputy Minister, Southern Ontario.*** Algonquin Region Eastern Region Central Region Southwestern Region
J. W. Keenan	Assistant Deputy Minister, Administration.

MINISTERIAL AGENCIES

G. H. Ferguson, Q.C.	Mining and Lands Commissioner.
D. R. Wilson	General Manager, Niagara Parks Commission.
R. F. Harrison	General Manager, St. Clair Parkway Commission.
I. D. Bird	General Manager, Algonquin Forest Authority.
J. R. Sloan	General Manager, St. Lawrence Parks Commission.

*Main Office in Whitney Block, Parliament Buildings, Toronto, Ontario M7A 1W3.

**Box 5000, 435 James St. South, Thunder Bay 'F', Ontario P7C 5G6.

***Maple, Ontario L0J 1E0.

OFFICE OF DEPUTY MINISTER

Room W-6320, Main Office. Telephone (416) 965-2704.

Deputy Minister	Dr. J .K. Reynolds	W-6320 ... 2704
Administrative Assistant	Mrs. I. Mack	W-6320 ... 5873
Science Adviser and Research Co-ordinator	Dr. M. F. Walmsley	W-6312 ... 5720
Special Adviser on Forest Regeneration	Prof. K. A. Armson	W-3621 ... 3040

POLICY CO-ORDINATION SECRETARIAT

Director	Mrs. M. B. Fordyce	W-6547 ... 8422
Secretary	Mrs. J. Nicholson	W-6540 ... 8422
Outdoor Recreation Policy Officer	D. W. Simkin	W-6546 ... 6712
Resource Products Policy Officer	(vacant)	W-6549 ... 6712
Lands and Waters Policy Officer	L. A. Douglas	W-6545 ... 6371
Economic Policy Officer	L. Lamothe	W-6543 ... 6371
Special Products Policy Officer	J. M. Kearns	W-6550 ... 6371
Recreation Analyst	J. D. Ross	W-6542 ... 6712

MINISTRY REGIONS AND DISTRICTS

Areas in Square Kilometres*

NORTHWESTERN REGION

Dryden	11 961	
Fort Frances	10 847	
Ignace	11 463	
Kenora	14 188	
Red Lake	64 105	
Sioux Lookout	112 097	224 661
Pt. Rainy Lake	1 222	
Pt. Lake of the Woods	2 427	3 649
Total, Region		<u>228 310</u>

NORTHERN REGION

Chapleau	23 602	
Cochrane	30 715	
Gogama	7 752	
Hearst	25 245	
Kapuskasing	21 225	
Kirkland Lake	13 312	
Moosonee	215 741	
Timmins	7 899	345 491
Pt. Lake Abitibi	790	790
Total, Region		<u>346 281</u>

ALGONQUIN REGION

Algonquin Park	9 376	
Bancroft	4 239	
Bracebridge	6 454	
Minden	4 745	
Parry Sound	7 187	
Pembroke	7 306	39 307
Pt. Georgian Bay	3 875	3 875
Total, Region		<u>43 182</u>

SOUTHWESTERN REGION

Aylmer	6 731	
Chatham	7 389	
Owen Sound	7 817	
Simcoe	2 818	
Wingham	6 889	31 644
Pt. Lake Huron and Lake Erie	30 950	
Pt. Lake St. Clair	673	31 624
Total, Region		<u>62 268</u>

NORTH CENTRAL REGION

Atikokan	11 321	
Geraldton	112 784	
Nipigon	25 574	
Terrace Bay	12 673	
Thunder Bay	28 451	<u>190 803</u>
Lake Nipigon	5 006	
Pt. Lake Superior	16 017	<u>21 023</u>
Total, Region		<u>211 826</u>

NORTHEASTERN REGION

Blind River	9 516	
Espanola	9 523	
North Bay	10 668	
Sault Ste. Marie	7 912	
Sudbury	12 725	
Temagami	6 856	
Wawa	22 535	<u>79 735</u>
Pt. Lake Huron and Lake Superior	25 298	
Lake Nipissing	816	
Lake Wahnapitae	145	<u>26 259</u>
Total, Region		<u>105 994</u>

EASTERN REGION

Brockville	3 496	
Cornwall	5 594	
Lanark	3 300	
Napanee	6 537	
Ottawa	2 976	
Tweed	6 605	<u>28 509</u>
Pt. Lake Ontario	4 333	4 333
Total, Region		<u>32 842</u>

CENTRAL REGION

Cambridge	7 141	
Huronia	6 550	
Lindsay	6 856	
Maple	4 812	
Niagara	2 670	<u>28 029</u>
Pt. Lake Ontario and Lake Erie	8 109	
Lake Simcoe	741	<u>8 850</u>
Total, Region		<u>36 879</u>

TOTALS

48 Districts	968,179
12 Lakes	100,403
Area of Ontario	<u>1,068,582</u>

*August 19, 1980
Surveys and Mapping Branch

MINISTRY REGIONS AND DISTRICTS

Areas in Square Miles*

NORTHWESTERN REGION

Dryden	4,618	
Fort Frances	4,188	
Ignace	4,426	
Kenora	5,478	
Red Lake	24,751	
Sioux Lookout	43,281	86,742
Pt. Rainy Lake	472	
Pt. Lake of the Woods	937	1,409
Total, Region		88,151

NORTHERN REGION

Chapleau	9,113	
Cochrane	11,859	
Gogama	2,993	
Hearst	9,747	
Kapuskasing	8,195	
Kirkland Lake	5,140	
Moosonee	83,298	
Timmins	3,050	133,395
Pt. Lake Abitibi	305	305
Total, Region		133,700

ALGONQUIN REGION

Algonquin Park	3,620	
Parry Sound	2,775	
Bancroft	1,637	
Bracebridge	2,492	
Minden	1,832	
Pembroke	2,821	15,177
Pt. Georgian Bay	1,496	1,496
Total, Region		16,673

SOUTHWESTERN REGION

Aylmer	2,599	
Chatham	2,853	
Owen Sound	3,018	
Simcoe	1,088	
Wingham	2,660	12,218
Pt. Lake Huron and Lake Erie	11,950	
Pt. Lake St. Clair	260	12,210
Total, Region		24,428

NORTH CENTRAL REGION

Atikokan	4,371	
Geraldton	43,546	
Nipigon	9,874	
Terrace Bay	4,893	
Thunder Bay	10,985	73,669
Lake Nipigon	1,933	
Pt. Lake Superior	6,184	8,117
Total, Region		81,786

NORTHEASTERN REGION

Blind River	3,674	
Espanola	3,677	
North Bay	4,119	
Sault Ste Marie	3,055	
Sudbury	4,913	
Temagami	2,647	
Wawa	8,701	30,786
Pt. Lake Huron and Lake Superior	9,767	
Lake Nipissing	315	
Lake Wahnapitae	56	10,138
Total, Region		40,924

EASTERN REGION

Brockville	1,350	
Cornwall	2,160	
Lanark	1,274	
Napanee	2,524	
Ottawa	1,149	
Tweed	2,550	11,007
Pt. Lake Ontario	1,673	1,673
Total, Region		12,588

CENTRAL REGION

Cambridge	2,757	
Huronia	2,529	
Lindsay	2,647	
Maple	1,858	
Niagara	1,031	10,822
Pt. Lake Ontario and Lake Erie	3,131	
Lake Simcoe	286	3,417
Total, Region		14,239

TOTALS

48 Districts	373,816	
12 Lakes	38,766	
Area of Ontario		412,582

* August 19, 1980
Surveys and Mapping Branch

FOREST RESOURCES GROUP

Room W-3623, Main Office.

Telephone (416) 965-2785.

Executive Co-ordinator	A. H. Peacock	W-3623 4319
Secretary	Mrs. I. Hart .....	..... 4319
Administrative Officer	L. P. Comeau	W-3622 2731
Program Analyst	D. H. Cope	W-3650 2575
Chief Forester	Prof. K. A. Arsmson	W-3621 3040
Assistant Chief Forester	F. C. Robinson	W-3652 2575
Chief Forest Economist	L. Lambert	W-3546 2731

FOREST RESOURCES BRANCH

Room W-3632, Main Office.

Telephone (416) 965-2785.

Director	W. K. Fullerton	W-3645 2787
Advisory Services Section	(vacant)	W-3626 2785
Head Forestry Extension Services	J. F. W. Gourlay	W-3626 2785
Agreement Administration	A. H. Cooper	W-3644 2785
Audit Co-ordinator	D. Holder	W-3643 2785
Assessment	M. Chaudhry	W-3629 2785
Silviculture Section	C. J. Heeney	W-3653 2575
Planting Stock	K. H. Reese	W-3648 2575
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Silviculturist, Hardwood, Pine	J. D. Scott	W-3642 2575
Silviculturist, Seed, Genetics	R. M. Rauter	W-3631 2785
Tree Distribution	H. H. Tiemann	W-3647 2785
Nursery Soils	V. Sadreika	W-3647 2575
Equipment Development Co-ord.	A. Citro	W-3649 2575
Pest Control Section	Dr. R. Carrow	(Maple) 832-2761
Forest Pathologist	B. McGauley	2761
Forest Entomologist	C. S. Kirby	2761
Herbicide	Dr. R. A. Campbell	2761
Pesticide Applications	S. A. Nicholson	2761

ONTARIO FOREST RESEARCH CENTRE

Maple, Ontario L0J 1E0 Telephone (416) 832-2761

Head	Dr. D. Burger	Extension 317
Tree Breeding		
Poplar, soft pines	Dr. L. Zsuffa (Leader)	Extension 295
Spruce	(vacant)	Extension 295
Hard pines	G. P. Buchert	Extension 295
Silviculture & Tree Biology		
Frost hardiness and dormancy	Dr. C. Glerum (Leader)	Extension 316
Hardwood quality	H. W. Anderson	Extension 312
Root development	Dr. D. C. F. Fayle	Extension 332
S. Ontario hardwoods, uplands	P. Jaciw	Extension 284
S. Ontario hardwoods, lowlands	H. C. Larsson	Extension 264
Seed	D. A. Skeates	Extension 305
Silviculture	G. Stroempl	Extension 311
Site and Productivity		
Moisture	G. Pierpoint (Leader)	Extension 331
Mensuration	A. F. Beckwith	Extension 265
Tree nutrition	R. H. Leech	Extension 306
Foliar analysis	Y. T. Kim	Extension 304
Biomathematics	Dr. F. L. Raymond	Extension 319
Photography	Jean Robinson	Extension 321
Growth measurements	G. A. Sinclair	Extension 324
FIELD UNITS		
Box 2960, Thunder Bay, Ont. P7B 5G5		
White spruce	N. F. Lyon (Leader)	(807) 767-1607
Black spruce	K. M. McClain	1607
Stand dynamics & fir silvic	G. B. MacDonald	1607
Poplar	D. H. Weingartner	1607
Mathematician	R. Forslund	1607
Box 490, Sault Ste. Marie, Ont. P6A 5M7		
Spruce, nutrient cycling	Dr. A. G. Gordon	(705) 949-9461
Box 190, Dorset, Ont. P0A 1E0		
Tolerant hardwoods	M. M. McLean	(705) 766-2671
Midhurst, Ont. L0L 1X0		
Nursery stock	Dr. R. E. Mullin	(705) 726-7640

FOREST TREE PRODUCTION BY MINISTRY NURSERIES

Number of trees in years ending March 31

Year	Bare Root	Container	Total
1970	62,623,496	5,958,388	68,581,884
1971	68,182,719	4,427,678	72,610,397
1972	76,597,391	5,079,258	81,676,649
1973	68,161,039	2,862,114	71,023,153
1974	65,362,395	3,402,228	68,764,623
1975	59,794,450	3,148,406	62,942,856
1976	50,944,733	5,346,866	56,291,599
1977	45,981,122	4,291,764	50,272,886
1978	48,291,842	5,461,375	53,753,217
1979	52,928,125	5,487,210	58,415,335
1980	61,453,461	7,944,817	69,398,278

USE OF NURSERY STOCK

Number of trees in year ending March 31, 1980

Use	Bare Root	Container	Total
Crown Land and Agreement			
Forest	38,815,503	7,944,817	46,760,320
WIA*	9,168,745	—	9,168,745
Other Private Land	13,026,690	—	13,026,690
Education or Science	442,523	—	442,523
Total	61,453,461	7,944,817	69,398,278

*The Woodlands Improvement Act.

TREE PRODUCTION BY SPECIES

Number of trees in years ending March 31

Species	1976	1977	1978	1979	1980
White Spruce	16,388,336	14,477,741	14,440,212	13,704,591	16,687,027
Black Spruce	6,523,898	5,736,509	8,507,184	13,170,734	11,800,627
Red Pine	8,202,148	9,043,522	7,011,779	8,627,330	8,215,238
Jack Pine	15,995,905	12,484,841	15,114,368	12,831,439	18,832,062
White Pine	4,108,999	3,404,115	2,404,671	3,694,571	5,181,787
White Cedar'	1,230,404	993,950	1,185,767	493,254	1,461,566
Scotch Pine	749,000	534,120	984,600	893,316	1,483,794
Silver Maple	348,982	648,797	514,600	584,853	423,958
Norway Spruce	421,825	324,549	387,904	902,881	1,158,639
Carolina Poplar	390,856	426,488	479,211	487,769	532,077
Black Walnut	272,730	323,364	360,775	341,587	301,305
White Ash	129,271	43,231	409,964	505,194	222,264
European Larch	227,610	124,545	180,502	154,055	175,874
Yellow Birch	271,723	409,925	160,400	205,827	41,440
Red Oak	309,149	366,199	160,208	398,192	499,244
Black Locust	81,875	155,577	145,708	212,583	190,235
Tamarack	414	110	9,450	28,238	255,211
Hemlock	95,342	115,161	118,049	130,456	529
Cottonwood	52,925	12,375	22,050	13,325	—
Hybrid Poplar					
Rooted	—	—	—	61,350	110,839
Unrooted	121,234	53,375	192,925	515,608	943,821
Japanese Larch	—	200,000	433,625	7,000	253,366
Aspen, unrooted	—	—	—	—	91,948
Other Species	368,973	394,392	529,265	451,182	535,427
Total	56,291,599	50,272,886	53,753,217	58,415,335	69,398,278

TREES SUPPLIED FOR PLANTING ON PRIVATE LANDS —

in years ending March 31

County or District	1976	1977	1978	1979	1980
Algoma	196,242	161,077	176,540	234,705	281,900
Brant	229,475	55,350	73,275	142,750	207,300
Bruce	149,225	256,350	110,675	119,385	282,953
Cochrane	2,225	245,675	277,750	482,720	560,600
Dufferin	221,422	253,185	232,335	325,915	486,250
Dundas	66,642	56,750	44,900	49,475	129,705
Durham**	179,450	103,150	286,345	378,775	480,901
Elgin	183,272	113,900	88,604	170,320	207,066
Essex	124,025	101,085	111,023	128,450	189,420
Frontenac	87,500	109,525	56,550	85,480	115,695
Glengary	85,750	100,483	75,175	71,025	76,675
Grey	453,772	436,245	381,255	453,124	427,215
Haldimand	356,792	236,315	102,245	241,075	298,566
Haliburton	26,775	38,725	24,450	45,125	73,200
Halton	193,550	132,625	180,910	105,225	250,970
Hastings	142,750	155,450	98,210	126,125	172,443
Huron	214,540	171,067	150,922	234,575	185,406
Kenora	137,550	89,050	415,675	374,400	102,300
Kent	86,900	63,175	87,500	135,500	137,535
Lambton	125,900	95,125	108,275	87,990	178,900
Lanark	134,825	56,425	98,000	67,137	199,312
Leeds & Grenville	165,565	261,545	146,133	139,589	369,040
Lennox & Addington	92,600	59,275	61,550	58,775	126,175
Manitoulin	3,900	8,200	11,150	10,550	55,500
Middlesex	300,945	205,005	204,306	231,282	340,788
Muskoka	31,100	46,900	36,550	86,800	66,250
Niagara	221,724	251,840	181,339	235,858	299,162
Nipissing	34,645	51,350	25,225	130,500	98,125
Norfolk	181	.....	102,000	2,610	32,600
Northumberland**	189,675	177,620	181,700	220,839	330,345
Ontario**	175,160	167,750	5,057	2,062	3,008
Ottawa-Carleton	173,958	158,442	164,392	101,225	396,699
Oxford	242,012	150,564	103,950	165,728	232,888
Parry Sound	81,350	94,500	78,650	147,275	273,600
Peel	339,621	294,448	136,630	233,487	295,543
Perth	159,350	79,425	122,545	83,198	200,053
Peterborough	102,011	113,507	113,338	228,231	195,967
Prescott	85,275	58,100	56,750	46,350	225,425
Prince Edward	43,561	56,675	55,200	75,070	79,000
Rainy River	84,075	72,550	200,350	51,625	83,675
Renfrew	248,275	236,275	212,728	339,094	262,425
Russell	79,575	81,550	63,476	61,600	182,200
Simcoe	686,825	517,491	606,435	837,865	1,044,115

**Totals do not reflect formation of the Regional Municipality of Durham.

County or District	1976	1977	1978	1979	1980
Stormont	26,100	32,410	33,785	36,225	84,518
Sudbury	237,150	156,800	305,700	254,612	372,482
Thunder Bay	118,776	113,700	98,191	141,875	133,675
Timiskaming	35,900	8,000	43,700	18,500	38,550
Victoria	49,121	121,131	103,549	154,615	250,207
Waterloo	115,725	95,625	71,900	118,450	267,950
Wellington	448,072	302,590	264,202	528,850	673,675
Wentworth	218,540	195,050	227,346	250,630	365,465
York	404,075	448,686	435,702	352,135	603,273
Durham Regional Municipality .....	.....	.....	.....	300	—
Total	*8,593,424	*7,647,726	*7,634,143	*9,405,081	*13,026,690

*Excluding W.I.A.

FOREST AREAS MANAGED BY THE MINISTER —

in Acres at March 31, 1980

Agreement Holders	Date of Agreement	Added 1979-80	Released 1979-80	Total
GOVERNMENT OF CANADA				
National Capital Commission	Aug 16, 1961	.....	.....	3,532.00
23 CONSERVATION AUTHORITIES				
Ausable Bayfield	Dec 13, 1951	.....	.....	4,299.00
Cataraqui Region	Dec 1, 1971	.....	.....	844.00
Catfish Creek	Dec 19, 1962	.....	.....	501.00
Crowe Valley	Aug 21, 1963	.....	.....	200.00
Ganaraska	Jan 31, 1947	.....	.....	8,639.00
Grand River	Mar 18, 1952	.....	1,405	4,434.87
Hamilton Region	Oct 19, 1962	.....	.....	12.50
Lakehead Region	May 15, 1958	.....	.....	1,244.20
Long Point Region	Dec 2, 1954	.....	.....	6,382.65
Lower Thames Valley	Aug 12, 1964	.....	.....	300.00
Maitland Valley	Apr 1, 1955	.....	.....	849.00
Metropolitan Toronto & Region	Apr 11, 1951	.....	.....	1,967.68
Moira River	Nov 28, 1951	.....	.....	17,202.00
Napanee Region	Oct 28, 1954	.....	.....	6,666.00
Niagara Peninsula	Jun 6, 1963	.....	.....	186.00
North Grey Region	Jun 25, 1958	.....	.....	7,250.73
Otonabee Region	May 15, 1963	.....	.....	3,533.00
Raisin Region	May 15, 1971	.....	.....	340.00
Sauble Valley	Sep 29, 1959	.....	.....	3,816.00
Saugeen Valley	Dec 15, 1952	.....	.....	14,067.97
South Nation River	Mar 28, 1960	400.00	.....	6,941.58
St. Clair Region	Jul 13, 1965	.....	.....	150.00
Upper Thames River	Apr 11, 1951	.....	.....	3,443.32
Sub-Total .....	.....	400.00	1,405	93,670.74

Agreement Holders	Date of Agreement	Added 1979-80	Released 1979-80	Total
10 TOWNSHIPS				
Bonfield	Apr 1, 1952	.....	.....	60.00
Charlottenburgh	Apr 4, 1955	.....	.....	175.00
Cramahe	Jan 4, 1964	.....	.....	162.00
Cumberland	May 29, 1952	.....	.....	808.44
Darlington	Aug 19, 1964	.....	.....	140.00
Galway & Cavendish	Nov 1, 1952	.....	.....	619.00
Machar	Dec 30, 1963	.....	.....	90.00
Mosa	Jul 16, 1964	.....	.....	144.00
Torbolton	Mar 28, 1953	.....	.....	430.80
Williamsburg	Oct 19, 1962	.....	.....	400.00
Sub-Total .....	.....	.....	.....	3,029.24
19 COUNTIES				
Brant	Nov 15, 1952	.....	.....	57.24
Bruce	Jan 20, 1950	.....	.....	15,383.35
Dufferin	Nov 26, 1930	.....	.....	2,505.00
Grey	Dec 21, 1937	.....	9.44	8,168.64
Huron	Nov 27, 1950	14.00	.....	1,603.00
Kent	Dec 23, 1953	.....	.....	75.39
Lanark	Jul 5, 1940	400.00	.....	8,928.00
Leeds & Grenville	Apr 24, 1940	.....	.....	13,473.00
Lennox & Addington	Apr 3, 1952	.....	.....	1,166.90
Middlesex	Mar 8, 1954	.....	.....	2,268.00
Northumberland	Jun 10, 1924	.....	.....	5,059.73
Oxford	Sep 1, 1950	.....	.....	848.56
Peterborough	Jun 10, 1924	.....	.....	200.00
Prescott & Russell	Mar 15, 1937	.....	.....	26,041.93
Renfrew	Dec 26, 1951	.....	0.03	15,543.98
Simcoe	Jun 19, 1925	.....	13.42	28,010.12
Stormont, Dundas & Glengarry	Sep 20, 1949	447.08	.....	7,122.96
Victoria	Aug 10, 1928	.....	.....	8,642.43
Wellington	Jun 18, 1964	.....	.....	1,240.00
Sub-Total .....	.....	861.08	22.89	146,338.23
6 REGIONAL MUNICIPALITIES				
Durham	Jul 9, 1930	.....	.....	2,647.30
Halton	Mar 14, 1950	.....	.....	1,498.63
Hamilton-Wentworth	Nov 27, 1952	.....	.....	980.95
Ottawa-Carleton	Jul 30, 1964	450.00	.....	11,121.00
Waterloo	Apr 17, 1950	.....	.....	718.70
York	Mar 27, 1924	90.00	.....	4,998.75
Sub-Total .....	.....	540.00	.....	21,965.33
INDUSTRY				
Domtar Ltd.	Nov 27, 1975	304.00	.....	1,906.00
TOTAL, 60 Managed Forest Areas .....	.....	2,105.08	1,427.89	270,441.54

SILVICULTURAL OPERATIONS

Classification of cutover forest land in year ending March 31, 1980
 Areas in hectares (acres in light face)

Cutting Method	Available for Regeneration Treatment			Natural Regeneration Without Treatment		
	Crown	Patent	Total	Crown	Patent	Total
Clear Cut	75,694	5,687	81,381	33,201	13,827	47,028
	187,044	14,053	201,097	82,041	34,167	116,208
Selection Cut .....	.....	.....	.....	11,120	10,817	21,937
	.....	.....	.....	27,479	26,729	54,208
Partial Cut .....	.....	.....	.....	.....	.....	.....

Total	75,694	5,687	81,381	44,321	24,644	68,965
	187,044	14,053	201,097	109,520	60,896	170,416

Cutting Method	Not Available for Regeneration Treatment			Crown	Total Patent	Total
	Crown	Patent	Total			
Clear Cut	30,698	1,040	31,738	139,593	20,554	160,147
	75,856	2,569	78,425	344,941	50,789	395,730
Selection Cut .....	.....	.....	.....	11,120	10,817	21,937
	.....	.....	.....	27,479	26,729	54,208
Partial Cut	25,757	10,737	36,494	25,757	10,737	36,494
	63,648	26,531	90,179	63,648	26,531	90,179
Total	56,455	11,777	68,232	176,470	42,108	218,578
	139,504	29,100	168,604	436,068	104,049	540,117

SUMMARY OF SILVICULTURAL OPERATIONS

Areas in Hectares (Acres in light face) in year ending March 31, 1980

Treatment	Crown Land	Agreement Forests	WIA	Sub-Total	Other Patent Lands	Total
REGENERATION						
Planting						
Nursery stock	19,830	445	4,414	24,689	2,004	26,693
	48,998	1,100	10,909	61,007	4,953	65,960
Container stock	3,860	200	77	4,137	—	4,137
	9,539	495	190	10,224	—	10,224
Seeding	24,251	—	—	24,251	—	24,251
	59,926	—	—	59,926	—	59,926
Scarification	2,392	4	—	2,396	—	2,396
	5,911	9	—	5,920	—	5,920
Strip cutting	2,058	—	—	2,058	—	2,058
	5,086	—	—	5,086	—	5,086
Seed tree cutting	7,339	7	—	7,346	—	7,346
	18,135	17	—	18,152	—	18,152
Shelterwood cutting	9,867	18	280	10,165	239	10,404
	24,383	44	691	25,118	591	25,709
Clear cutting	2,266	107	8	2,381	243	2,624
	5,598	266	20	5,884	600	6,484
Sub-total	71,863	781	4,779	77,423	2,486	79,909
	177,576	1,931	11,810	191,317	6,144	197,461
RE-TREATMENT	2,072	38	1,721	3,831	—	3,831
	5,120	93	4,254	9,467	—	9,467
TENDING						
Hand Cleaning	5,326	598	704	6,628	38	6,666
	13,161	1,477	1,740	16,378	93	16,471
Herbicide spraying	13,156	378	1,402	14,936	2,012	16,948
	32,509	935	3,464	36,908	4,973	41,881
Thinning						
Improvement cuts	8,511	1,864	2,856	13,231	386	13,617
	21,032	4,605	7,058	32,695	953	33,648
Pruning	695	583	353	1,631	1	1,632
	1,717	1,441	872	4,030	3	4,033
Fertilization, Drainage	172	144	50	366	—	366
	424	357	124	905	—	905
Sub-total	27,860	3,567	5,365	36,792	2,437	39,229
	68,843	8,815	13,258	90,916	6,022	96,938
SITE PREPARATION						
	49,061	555	1,370	50,986	8	50,994
	121,233	1,372	3,384	125,989	20	126,009
MARKING						
	50,607	4,024	4,525	59,156	7,329	66,485
	125,052	9,944	11,182	146,178	18,110	164,288
Total Area Treated	201,463	8,965	17,760	228,188	12,260	240,448
	497,824	22,155	43,888	563,867	30,296	594,163

CROWN LANDS TREATED

Areas in hectares (acres in light face) in years ending March 31

Silvicultural Operations	1976	1977	1978	1979	1980
REGENERATION					
Planting					
Nursery stock	20,057	16,870	17,203	18,529	19,830
	49,561	41,687	42,509	45,875	48,998
Container stock	2,767	2,005	2,372	2,280	3,860
	6,837	4,955	5,860	5,633	9,539
Seeding	23,510	27,039	28,791	23,548	24,251
	58,095	66,814	71,145	58,189	59,926
Scarification	4,801	3,238	4,709	4,013	2,392
	11,862	8,002	11,637	9,917	5,911
Strip cutting	1,431	1,959	3,359	2,580	2,058
	3,536	4,840	8,301	6,376	5,086
Seed tree cutting	1,530	4,106	5,789	6,325	7,339
	3,781	10,147	14,304	15,630	18,135
Shelterwood cutting	7,149	7,938	8,234	10,669	9,867
	17,666	19,614	20,346	26,364	24,383
Clear cutting	1,021	1,203	2,125	2,771	2,266
	2,523	2,972	5,251	6,847	5,598
Total Regeneration	62,265	64,358	72,582	70,715	71,863
	153,861	159,031	179,353	174,741	177,576
Sub-total .....	.....	.....	8,982	3,435	2,072
	.....	.....	22,195	8,487	5,120
TENDING					
Hand cleaning	3,749	4,576	7,857	4,855	5,326
	9,265	11,308	19,417	11,988	13,161
Herbicide spraying	6,125	9,980	13,795	16,955	13,156
	15,136	24,661	34,089	41,896	32,509
Thinning, Improvement cuts	13,340	13,848	17,273	12,853	8,511
	32,964	34,218	42,683	31,761	21,032
Pruning	560	376	811	661	695
	1,385	928	2,003	1,633	1,717
Fertilization, Drainage	163	115	183	188	172
	404	283	451	464	424
Sub-total	23,937	28,895	39,919	35,512	27,860
	59,154	71,398	98,643	87,752	68,843
SITE PREPARATION					
	39,110	34,694	41,895	42,834	49,061
	96,642	85,730	103,525	105,846	121,233
MARKING	36,851	46,271	46,572	50,243	50,607
	91,061	114,338	115,082	124,153	125,052
Total Area Treated	162,163	174,218	209,950	202,739	201,463
	400,718	430,497	518,798	500,979	497,824

FOREST RESOURCES GROUP

TIMBER SALES BRANCH

Room W-3540, Main Office. Telephone (416) 965-2731.

Branch Director	E. Markus	W-3545 . 5-3948
Resources Inventory	B. Cardwell	W-3422 6914
Field Operations	(vacant)	W-3423 6914
Photo Interpretation	(vacant)	W-3420 6914
Compilation	D. Trafford	W-3420 6914
Darkroom	W. T. Masters	W-3520 6914
Management Plans	J. D. Hughes	W-3602 7631
Crown Management Units	H. P. van Bers	W-3604 7631
Company Management Units	G. Protich	W-3606 7631
	J. E. Osborn	W-3603 7631
Timber Allocation	J. R. Keddie	W-3543 2731
Licence Forester	K. Cleary	W-3549 2731
Licence Officer	D. A. Denton	W-3544 2731
Wood Measurement	J. H. Butts	W-3612 0378
Provincial Wood Measurement	J. H. Bingley	W-3611 0378
Training Officer	R. G. Johnson	W-3610 0378
Industry Development	(vacant)	W-3546 2731
Forest Mensuration	J. A. Mervart	W-3541 2731
Industry Liaison	W. D. Wardle	Hearst NE 708 5760
Resource Economics	I. A. Nausedas	W-3548 2731
Intergovernmental Liaison Officer	R. P. Alton	W-3547 2731

MANAGEMENT UNITS

Areas in square kilometres (square miles in light face) at March 31

Year	CROWN LAND FORESTS					AGREEMENT FORESTS		
	No.	Crown Area	No.	Company Area	No.	Total Area	No.	Area
1976	88	272,588.5 105,247.0	31	218,095.1 84,207.0	119	490,683.6 189,454.0	60	1,036.0 400.0
1977	88	333,821.0 128,889.0	26	199,348.8 76,969.0	114	533,169.7 205,858.0	60	1,036.0 400.0
1978	88	333,821.0 128,889.0	26	199,348.8 76,969.0	114	533,169.7 205,858.0	60	1,064.5 411.0
1979	88	333,821.0 128,889.0	17	199,348.8 76,969.0	105	533,169.7 205,858.0	59	1,077.4 416.0
1980	88	334,418.0 129,120.0	17	198,751.0 76,681.0	105	533,169.0 205,801.0	60	1,090.0 421.0

TIMBER LICENCES

Areas in square kilometres (square miles in light face) at March 31

Year	Under Section 2 No.	Under Section 2 Area	Under Section 3 No.	Under Section 3 Area	Under Section 5 No.	Under Section 5 Area	Total Licences No.	Total Licences Area
1976	26	592.8 228.9	399	246,034.6 94,994.5	15	199.2 76.9	440	246,826.6 95,300.3
1977	31	584.3 225.6	395	254,387.3 98,219.5	14	160.6 62.0	440	255,132.2 98,507.1
1978	28	33.9 13.1	386	241,194.4 93,125.7	14	69.9 27.0	428	241,298.3 93,165.8
1979	44	39.1 15.1	415	239,531.2 92,483.5	19	96.3 37.2	478	239,666.6 92,535.8
1980	78	75.6 29.2	412	242,711.9 93,711.6	20	86.5 33.4	510	242,874.1 93,774.2

MILL LICENCES

Type of Mill	1975	1976	1977	1978	1979
Saw Mills, 8-hour capacity					
Lumber over					
50M fbm	53	51	58	61	54
Lumber 10M to					
50M fbm	98	90	99	96	96
Lumber under					
10M fbm	569	547	588	602	594
Misc. Sawn Products	45	27	31	30	41
Saw Mills, Total	765	715	776	789	785
Veneer Mills	23	26	24	24	28
Pulp Mills	23	23	22	23	23
Total	811	764	822	836	836

TIMBER HARVESTED ON CROWN LANDS BY SPECIES

In cubic metres (000s cubic feet in light face) and \$000s in years ending March 31

Species	1976	1977	1978	1979	1980
SOFTWOOD					
Balsam	273,002	418,522	529,184	556,482	612,228
	9,641	14,780	18,688	19,652	21,621
Cedar	14,725	11,327	12,289	15,574	21,139
	520	400	434	550	747
Hemlock	47,091	53,434	58,049	73,397	59,271
	1,663	1,887	2,050	2,592	2,093
Jack Pine	2,726,398	3,823,306	5,010,884	5,086,830	5,733,806
	96,282	135,019	176,958	179,640	202,487
Red Pine	202,720	144,444	174,205	144,444	177,397
	7,159	5,101	6,152	5,101	6,265
Scotch Pine	85	.....	.....	.....	—
	3	.....	.....	.....	—
White Pine	446,754	492,627	586,894	492,882	560,970
	15,777	17,397	20,726	17,406	19,810
Spruce	4,299,283	6,586,516	7,511,569	7,568,231	8,222,273
	151,828	232,601	265,269	267,270	290,367
Tamarack	2,152	2,832	1,926	2,152	4,269
	76	100	68	76	151
Mixed	19,369	2,237	7,079	6,683	9,209
	684	79	250	236	325
HARDWOOD					
Ash	1,076	1,274	1,303	1,727	2,304
	38	45	46	61	81
Basswood	6,485	6,088	7,759	11,100	12,836
	229	215	274	392	453
Beech	9,854	12,856	14,696	24,806	21,663
	348	454	519	876	765
White Birch	61,504	63,939	66,290	79,627	88,532
	2,172	2,258	2,341	2,812	3,126
Yellow Birch	123,320	122,838	111,115	111,851	112,682
	4,355	4,338	3,924	3,950	3,979
Butternut .....	.....	.....	.....	28	13
	.....	.....	.....	1	.....
Cherry	736	595	821	1,133	1,148
	26	21	29	40	41
Elm	1,614	878	623	283	283
	57	31	22	10	10
Maple	221,466	258,844	241,344	270,454	249,783
	7,821	9,141	8,523	9,551	8,821
Oak	7,504	6,456	8,920	11,270	13,266
	265	228	315	398	469
Poplar	687,164	792,672	1,059,586	1,319,903	1,384,875
	24,267	27,993	37,419	46,612	48,906
Mixed	109,161	323,633	452,984	592,897	626,132
	3,855	11,429	15,997	20,938	22,112
TOTALS					
Softwoods	8,031,607	11,535,216	13,892,165	13,946,675	15,400,562
	283,634	407,363	490,598	492,523	543,866
Hardwoods	1,229,884	1,590,073	1,965,497	2,425,051	2,513,517
	43,433	56,153	69,411	85,640	88,764
Total	9,261,491	13,125,289	15,857,662	16,371,697	17,914,078
	327,067	463,516	560,009	578,162	632,630
Value*	\$19,425	\$26,788	\$32,357	\$35,919	\$46,184

*Export Levy not included.

20 VOLUME AND VALUE OF TIMBER CUT FROM CROWN LANDS
in year ending March 31, 1980

Tree Species	Volume in Cubic Feet	Volume in Cubic Metres	Bonus	Crown Dues	Stampage Value
SOFTWOODS					
White Pine	19,810,473.53	560,970.21	\$ 721,675.99	\$ 1,572,530.42	\$ 2,294,206.41
Red Pine	6,264,710.57	177,396.87	221,587.67	495,699.77	717,287.44
Jack Pine	202,487,409.76	5,733,805.61	560,398.77	14,846,532.77	15,406,931.54
White Spruce	6,082,074.40	172,225.19	10,850.25	450,146.88	460,997.13
Black Spruce	23,908,366.42	677,009.63	32,022.92	1,719,742.31	1,751,765.23
Spruce, Mixed	260,376,346.39	7,373,037.94	935,693.93	19,404,421.27	20,340,115.20
Hemlock	2,093,118.90	59,270.53	26,428.46	166,432.18	192,860.64
Balsam	21,620,623.67	612,227.96	69,610.42	1,496,773.25	1,566,383.67
Cedar	746,531.66	21,139.43	17,765.99	51,984.70	69,750.69
Tamarack	150,770.39	4,269.34	282.54	12,189.62	12,472.16
Conifers	325,215.10	9,209.07	1,046.51	4,567.55	5,614.06
Total Softwoods	543,865,640.79	15,400,561.77	2,597,363.45	40,221,020.72	42,818,384.17
HARDWOODS					
Maple	8,820,990.91	249,782.68	306,002.15	768,917.57	1,074,919.72
Yellow Birch	3,979,316.46	112,681.71	206,585.56	389,978.47	596,564.03
White Birch	3,126,471.30	88,531.82	44,863.45	38,191.19	83,054.64
Oak	468,500.66	13,266.46	50,895.00	33,122.78	84,017.78
Beech	765,023.66	21,663.06	35,547.90	63,796.00	99,343.90
Ash	81,366.55	2,304.04	6,013.41	5,436.59	11,450.00
Elm	9,983.14	282.69	377.78	1,051.94	1,429.72
Basswood	453,315.45	12,836.47	28,374.46	30,128.48	58,502.94
Hickory	5.23	0.15	2.25	0.05	2.30
Butternut	459.42	13.01	85.59	32.88	118.47
Ironwood	19.44	0.55	0.53	0.20	0.73
Cherry	40,550.90	1,148.27	1,433.38	3,908.44	5,341.82
Poplar	48,906,386.42	1,384,874.81	200,275.62	624,537.73	824,813.35
Hardwoods	22,111,600.13	626,130.86	262,097.76	263,863.16	525,960.92
Total Hardwoods	88,763,989.67	2,513,516.58	1,142,554.84	2,222,965.48	3,365,520.32
TOTAL	632,629,630.46	17,659,226.70	3,739,918.29	42,443,986.20	46,183,904.49

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT

In cubic metres (000s cubic feet in light face) and \$000s in years ending March 31

Year	Cords		Cubic Feet		Foot Board Measure			Weight	Total	Stumpage Value
	Softwood	Hardwood	Softwood	Hardwood	Grade 1	Grade 2	Grade 3			
1976	1,527,097	322,443	3,717,090	416,285	141,103	158,971	71,953	2,911,140	9,276,209	\$19,425
	53,929	11,387	131,268	14,701	4,983	5,614	2,541	102,643	327,067	
1977	3,057,308	400,711	5,099,318	358,632	145,520	182,870	81,467	3,805,530	13,146,148	\$26,788
	107,968	14,151	180,081	12,665	5,139	6,458	2,877	134,178	463,516	
1978	3,497,493	572,877	6,094,200	394,991	129,096	178,736	78,931	4,919,241	15,882,863	\$32,357
	123,513	20,231	215,215	13,949	4,559	6,312	2,783	173,446	560,009	
1979	3,936,658	694,300	5,862,540	531,167	125,132	202,040	105,506	4,922,332	16,397,743	\$35,919
	139,022	24,519	207,034	18,758	4,419	7,135	3,720	173,555	578,163	
1980	4,339,917	708,271	6,059,439	656,378	121,369	191,354	101,058	5,736,293	17,914,078	\$46,184
	153,263	25,012	213,987	23,180	4,286	6,758	3,569	202,575	632,630	

TIMBER HARVESTED ON CROWN LANDS BY REGIONS

(Administrative Regions of Ministry of Natural Resources)

In cubic metres (000s cubic feet in light face) in years ending March 31

Regions	1980
Northwestern	
Softwoods	3,621,019
127,875	
Hardwoods	38,722
1,367	
North Central	
Softwoods	5,209,534
183,973	
Hardwoods	839,366
29,642	
Northern	
Softwoods	5,154,315
182,023	
Hardwoods	414,242
14,629	
Northeastern	
Softwoods	1,027,730
36,294	
Hardwoods	601,760
21,251	
Algonquin	
Softwoods	349,480
12,342	
Hardwoods	534,308
18,869	
Eastern	
Softwoods	38,304
1,353	
Hardwoods	84,471
2,983	
Central	
Softwoods	179
6	
Hardwoods	648
23	
Southwestern	
Softwoods	—
Hardwoods	—
	—
Total, Ontario	
Softwoods	15,400,562
543,866	
Hardwoods	2,513,517
88,764	
Total	17,914,078
	632,630

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT AND TREE SPECIES

— in year ending March 31, 1980

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues	Stumpage Value \$
CORDS, ROUGH					
White Pine	3,554.12	302,099.45	8,554.50	22,447.12	24,827.35
Red Pine	3,438.33	292,258.05	8,275.83	21,552.55	23,797.19
Jack Pine	669,027.96	56,867,376.60	1,610,304.97	4,067,980.89	4,183,593.15
Pine, Mixed	64.37	5,471.45	154.93	363.69	1,287.40
White Spruce	1.58	134.30	3.80	8.93	9.48
Spruce, Mixed	800,490.14	68,031,536.63	1,926,438.82	4,961,821.13	5,141,037.81
Hemlock	27.91	2,372.35	67.18	167.19	306.55
Balsam	29,185.31	2,480,076.80	70,227.96	168,208.18	176,795.05
Cedar	3,896.79	330,576.90	9,360.90	23,083.35	24,790.23
Tamarack	1,636.55	139,106.75	3,939.06	11,293.43	11,379.26
Conifers, Mixed	224.04	19,043.40	539.25	727.01	727.01
White Birch	10,291.06	874,740.10	24,769.88	10,569.72	20,136.76
Poplar	192,329.00	15,364,013.00	435,060.45	203,198.27	267,384.51
Hardwoods, Mixed	11,722.93	996,129.05	28,207.24	13,671.71	67,160.34
Sub-Total	1,725,890.09	145,704,934.83	4,125,904.78	9,505,093.17	9,943,232.09
CORDS, PEELED					
Jack Pine	43,919.93	4,391,993.00	124,367.41	291,899.03	295,093.24
Spruce, Mixed	185,022.52	18,502,252.00	523,925.49	1,306,193.94	1,341,454.51
Balsam	15,977.05	1,597,705.00	45,241.97	60,847.61	63,717.52
Poplar	6,089.01	608,901.00	17,242.16	8,307.78	8,750.40
Sub-Total	251,008.51	25,100,851.00	710,777.03	1,667,248.36	1,709,015.67

	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
CUBIC FEET					
White Pine	15,903,477.44	450,336.39	1,256,911.20	1,877,689.49	
Red Pine	4,712,727.65	133,449.60	374,620.47	563,643.99	
Jack Pine	58,924,289.25	1,668,550.26	4,307,259.49	4,501,002.42	
White Spruce	6,081,940.10	172,221.39	450,137.95	460,987.65	
Black Spruce	23,908,366.42	677,009.63	1,719,742.31	1,751,765.23	
Spruce, Mixed	91,387,471.50	2,587,805.32	6,901,932.29	7,293,677.33	
Hemlock	1,964,505.52	55,628.61	157,455.88	183,416.94	
Balsam	10,667,258.60	302,063.16	768,618.93	803,784.60	
Cedar	415,954.76	11,778.53	28,901.35	44,960.46	
Tamarack	11,663.64	330.28	896.19	1,092.90	
Yellow Birch	6,909.02	195.64	72.54	414.53	
White Birch	2,251,731.20	63,761.93	27,621.47	62,917.88	
Ash	100.50	100.50	2.85	5.00	
Poplar	20,920,977.11	592,416.17	266,133.96	364,170.20	
Hardwoods, Mixed	52.32	52.32	1.48	2.98	
Sub-Total	237,157,425.03	237,157,425.03	6,715,551.23	16,260,312.01	17,909,533.62
BOARD FOOT MEASURE, GRADE 1					
Maple	15,930.71	2,517,093.01	71,276.15	406,869.14	535,821.63
Yellow Birch	8,438.02	1,283,248.39	36,337.55	223,830.37	314,614.25
Oak	810.31	131,929.59	3,735.83	19,553.21	38,684.14
Beech	1,339.86	214,851.96	6,083.93	32,530.24	45,783.25
Ash	100.65	16,391.26	464.15	2,532.96	4,189.70
Elm	26.46	4,113.81	116.49	655.52	830.32
Basswood	650.35	107,013.55	3,030.29	16,189.43	24,878.34
Butternut	1.02	167.74	4.75	21.16	70.89
Cherry	72.05	11,279.00	319.39	1,907.07	2,491.23
Sub-Total	27,369.43	4,286,088.31	121,368.52	704,089.10	967,363.75

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues	Stumpage Value \$
BOARD FOOT MEASURE, GRADE 2					
Maple	25,684.34	4,164,390.15	117,922.41	331,504.07	474,806.89
Yellow Birch	11,549.21	1,814,213.39	51,372.81	152,795.03	265,695.07
Oak	962.69	165,280.89	4,680.23	11,380.67	30,986.36
Beech	2,381.96	392,942.98	11,126.91	29,163.28	45,689.73
Ash	193.11	32,991.96	934.23	2,440.72	4,917.65
Elm	31.25	5,047.51	142.93	386.83	564.31
Basswood	933.31	159,070.66	4,504.38	11,513.05	22,290.00
Butternut	0.96	161.21	4.56	10.15	40.43
Cherry	144.68	23,514.26	665.85	1,915.11	2,737.09
Sub-Total	41,881.51	6,757,613.01	191,354.31	541,108.91	847,727.53
BOARD FOOT MEASURE, GRADE 3					
Maple	12,032.29	2,139,507.75	60,584.12	30,544.36	64,291.20
Yellow Birch	5,045.98	874,945.66	24,775.71	13,280.53	15,840.18
Oak	928.61	171,290.18	4,850.40	2,188.90	14,347.28
Beech	871.57	157,228.72	4,452.22	2,102.48	7,870.92
Ash	190.42	31,882.83	902.82	457.91	2,337.65
Elm	4.52	821.82	23.27	9.59	35.09
Basswood	998.83	187,231.24	5,301.80	2,426.00	11,334.60
Hickory	0.03	5.23	0.15	0.05	2.30
Butternut	0.75	130.47	3.69	1.57	7.15
Ironwood	0.10	19.44	0.55	0.20	0.73
Cherry	32.85	5,757.64	163.04	86.26	113.50
Sub-Total	20,105.95	3,568,820.98	101,057.77	51,097.85	116,180.60

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
WEIGHED WOOD					
White Pine	2,307,101.79	3,604,846.64	102,077.90	293,172.10	391,689.57
Red Pine	805,683.89	1,259,724.87	35,671.44	99,526.75	129,846.26
Jack Pine	45,683,180.57	82,303,580.39	2,330,578.14	6,179,393.36	6,427,242.73
Spruce, Mixed	45,756,948.94	82,444,951.66	2,334,581.33	6,234,473.91	6,563,945.55
Hemlock	89,631.14	126,241.03	3,574.75	8,809.11	9,137.15
Balsam	4,194,330.52	6,876,540.59	194,721.97	499,098.53	522,086.50
Poplar	8,288,621.85	12,012,495.31	340,156.03	146,897.72	184,508.24
Hardwoods, Mixed	10,460,142.45	13,946,856.01	394,931.03	172,903.48	246,020.15
Sub-Total	117,585,641.15	202,575,236.50	5,736,292.59	13,634,274.96	14,474,476.15
FUELWOOD, CORDS					
Conifers	3,537.65	300,700.25	8,514.88	3,476.85	3,599.65
Hardwoods, Mixed	84,656.25	7,168,562.75	202,991.12	77,284.99	212,775.43
Sub-Total	88,193.90	7,469,263.00	211,506.00	80,761.84	216,375.08
TOTAL CROWN TIMBER HARVESTED					
		632,629,630.46	17,914,078.35	42,443,986.20	46,183,904.49

PRINCIPAL STATISTICS OF ONTARIO'S FOREST INDUSTRY BY SECTOR

Source: Statistics Canada

Sector	Year	Establishments No.	Employees No.	Salaries and Wages \$000s	Fuel and Electricity \$000s	Materials and Supplies \$000s	Value of Shipments \$000s	Value Added \$000s
1974								
Logging		380	9,673	121,454	11,329	150,366	326,247	188,240
Wood Industries		740	20,507	173,683	13,095	314,463	636,670	337,486
Paper and Allied		294	47,404	512,825	93,673	1,175,921	2,429,138	1,221,616
Total		1,414	77,584	807,964	118,097	1,640,750	3,392,055	1,747,342
Furniture and Fixtures*		502	23,174	195,519	5,072	320,691	634,487	333,245
1975								
Logging		328	8,028	111,940	9,724	150,098	302,702	176,263
Wood Industries		726	19,284	185,822	12,975	340,021	638,441	306,896
Paper and Allied		302	45,178	497,083	93,261	1,064,969	2,126,441	999,360
Total		1,356	72,490	794,845	115,960	1,555,088	3,067,584	1,482,519
Furniture and Fixtures*		490	22,362	206,750	5,590	302,961	641,845	342,969
1976								
Logging		269	7,694	126,888	11,014	153,503	353,893	196,735
Wood Industries		683	19,868	212,309	17,561	386,944	734,319	343,414
Paper & Allied		301	45,645	612,501	145,410	1,291,516	2,459,739	1,083,376
Total		1,253	73,207	951,698	173,985	1,831,963	3,547,951	1,623,525
Furniture and Fixtures*		470	21,712	226,778	6,781	350,314	707,781	371,375
1977								
Logging		246	8,447	153,309	12,539	188,298	435,323	231,149
Wood Industries		645	20,110	242,641	22,715	447,267	870,023	410,509
Paper & Allied		287	43,488	681,113	197,186	1,440,021	2,826,617	1,207,415
Total		1,178	72,045	1,077,063	232,440	2,075,586	4,131,963	1,849,073
Furniture and Fixtures*		455	20,078	222,317	7,734	337,931	709,599	368,612
1978								
Logging		255	9,569	179,797	15,045	244,909	504,960	253,658
Wood Industries		707	21,942	279,260	27,712	541,657	1,077,962	515,321
Paper & Allied		319	45,209	747,394	228,829	1,616,288	3,145,697	1,317,821
Total		1,281	76,720	1,206,630	271,586	2,402,854	4,728,619	2,086,800
Furniture and Fixtures		527	20,968	250,535	8,299	390,909	828,564	437,325

* Does not include furniture upholstery, re-upholstery and repair shops.

MINERAL RESOURCES GROUP *

Room W-6341, Main Office. Telephone (416) 965-4271.

Executive Co-ordinator	G. A. Jewett	W-6341 4271
Secretary	Mrs. P. Barchuk	W-6341 4271
Head, Planning and Administration	G. E. Soucie	R-811 5484
Financial Officer	H. E. Cook	R-810 2461

ONTARIO GEOLOGICAL SURVEY

Room 1121, 77 Grenville St., Toronto, Ont. M5S 1B3. Telephone (416) 965-1283.

Survey Director	Dr. E. G. Pye	R-1121 1283
Precambrian Geology Section	Dr. V. G. Milne, Spvr.	R-914 1321
North Archaen Group	P. C. Thurston	R-923 1827
Central Archaen Group	C. E. Blackburn	R-908 4817
South Archaen Group	N. F. Trowell	R-907 4817
Proterozoic Group	J. Wood	R-905 2326
Engineering & Terrain Geology Section	Dr. O. L. White, Spvr.	R-707 1182
Paleozoic Group	Dr. P. G. Telford	R-706 1182
Quaternary Group	Dr. N. Eyles	R-701 1182
Aggregate Assessment Office	W. D. Scott	R-705 1182
Geophysics—Geochemistry Section	R. B. Barlow, Spvr.	R-708 1697
Mineral Deposits Section	J. A. Robertson, Spvr.	R-1028 1466
Geoservices Section	Dr. A. E. Pitts, Spvr.	R-912 5601
Geoscience Data Centre	H. A. Groen	R-804 4641
Assessment Files Research	R. C. Owen	R-819 6139
Geoscience Information	E. B. Freeman	R-807 0190
Scientific Review	Mrs. G. M. Scott	R-724 4536
Geoscience Laboratories	Dr. C. Riddle	R-1117 1337
Mines Library	N. Thurston	R-812 1352
Program Evaluation Geologist	Dr. M. A. Lee	R-1117A .. 2095
Regional Liaison Geologist	C. R. Kustra	R-1119 2095
Geoscience Research Grant Program	C. M. Collins	R-806 1546
Mineral Exploration Asst. Program	S. V. Burr	R-808 1546

*See Mining Lands and Prospecting Activities under Lands Administration Branch

MINERAL EXPLORATION ASSISTANCE PROGRAM (MEAP)

Summary of Approved Expenditures* in years ending March 31. Totals from April 1, 1971.**

AREA	1977	1978	1979	1980	Area Total
COBALT-GOWGANDA	\$ 164,274	\$ 287,723	\$ 304,076	\$ 157,298	\$ 2,374,537
Company Expenditures	164,274	287,723	304,076	157,298	2,374,537
Government Payments	49,667	95,785	100,430	52,414	744,901
GERALDTON-BEARDMORE					
Company Expenditures	159,555	2,808	53,053	60,630	1,526,523
Government Payments	50,237	936	17,684	20,210	468,514
KIRKLAND LAKE					
Company Expenditures	173,634	258,535	442,091	854,745	2,919,158
Government Payments	57,676	85,860	146,538	250,885	897,306
RED LAKE					
Company Expenditures	143,707	236,149	203,982	548,083	2,431,986
Government Payments	43,425	73,585	67,991	174,485	756,768
ATIKOKAN**					
Company Expenditures	294,545	211,171	110,047	195,125	940,942
Government Payments	97,134	69,355	33,333	64,831	308,005
EASTERN ONTARIO**					
Company Expenditures	344,645	403,753	172,827	254,711	1,415,374
Government Payments	105,381	120,341	69,491	84,589	455,342
TOTAL					
Company Expenditures	1,280,360	1,400,139	1,286,076	2,070,592	11,608,520
Government Payments	403,531	445,863	435,467	647,514	3,630,836

*Under MEAP, the Government reimburses a company or individual one-third of the cost of an approved exploration expenditure up to a maximum of \$33,333.33. Approved company expenditures do not necessarily reflect the total company costs on MEAP projects.

** Atikokan began in 1974. Eastern Ontario began in 1975.

ASSESSMENT FILES RESEARCH OFFICE

Office Operations	1975	1976	1977	1978	1979	1946-79
FILES ADDED						
Technical Surveys and Summaries for Assessment Credit	277	240	240	300	350	6,564
MEAP	31	56	45	50	50	437
Ontario Securities						
Commission and Misc.	56	81	48	25	27	530
Drilling Reports	500	400	300	320	340	8,721
OPERATIONS						
Enquiries	2,821	2,685	3,460	3,527	3,274	.....
Files Examined	15,277	14,702	14,520	14,343	15,640	.....
Control Maps Examined	7,389	8,932	7,141	6,569	6,361	.....

LIST OF FIELD SURVEYS (REGULAR PROGRAM)

Ontario Geological Survey, 1979

No.	Location	Leaders
PRECAMBRIAN GEOLOGY SECTION		
1.	Lithophile Mineralization, NW Ontario	F. W. Breaks
2.	Heyson Township Area	J. Pirie
3.	Red Lake Synoptic Survey	J. Pirie
4.	Ferdinand Lake Area	H. Wallace
5.	Felsic Centres of Volcanism, NW Ontario	P. C. Thurston
6.	Melchett Lake Area	W. D. Bond
7.	Gibi Lake Area	N. F. Trowell
8.	Kawashegamuk Lake Area	C. E. Blackburn
9.	Righteye Lake Area	S. L. Fumerton
10.	Funger Lake Area	R. H. Sutcliffe
11.	Schreiber Area	M. W. Carter
12.	Wawa Area	R. P. Sage
13.	Rotunda Lake — Percy Lake Area	B. C. Wilson
14.	Jerome Area	G. M. Siragusa
15.	Larder Lake Synoptic Survey	L. S. Jensen
16.	Alkalic Rocks — Carbonatites Complexes	R. P. Sage
17.	Demorest, McConnell, and Telfer Townships	B. Dressler
18.	Regional Geology — Cobalt Embayment	J. Wood
19.	McGregor Road Breccia and Huronian Volcanism	G. Bennett
20.	Centre Lake Area	E. G. Bright
21.	Sharbot Lake Area	J. M. Wolff
ENGINEERING AND TERRAIN GEOLOGY SECTION		
22.	Wallaceburg — St. Clair Flats — Chatham Areas	W. D. Fitzgerald
23.	Owen Sound Area	B. H. Feenstra
24.	Markham Area	J. A. Westgate
25.	Bancroft Area	P. J. Barnett
26.	Pembroke Area	P. J. Barnett
27.	Urban Geology of Toronto	D. R. Sharpe
28.	James Bay Lowland	E. V. Sado
29.	Peterborough — Campbellford Area	D. M. Carson
GEOPHYSICS/GEOCHEMISTRY SECTION		
30.	Gowganda — Shining Tree — Gogama, Gravity Study	V. K. Gupta D. R. Wadge
MINERAL DEPOSITS SECTION		
31.	Southern Province, Metallogenesis	D. G. Innes
32.	Bancroft Area, Uranium Mineralization	A. C. Colvine
33.	Geology and Geochemistry of Gold Mineralization, Porcupine Camp	S. Masson
34.	Grenville Province, Metallic Mineral Deposits	J. B. Gordon J. A. Fyon J. H. Crocket T. R. Carter A. C. Colvine

LIST OF FIELD SURVEYS (SPECIAL PROGRAM)

Ontario Geological Survey, 1979

No.	Location	Leaders
PRECAMBRIAN GEOLOGY SECTION		
1. Lateral Lake Area		R. O. Page
2. Klob Lake Area		S. E. Amukun
3. Shawmere Anorthosite		L. Riccio
4. Capreol Area		T. L. Muir
5. Sudbury Irruptive, Footwall		B. Dressler
6. Firstbrook Lake Area		G. W. Johns
7. Abitibi Alteration Study		E. C. Grunsky
8. Kirkland Lake Stratigraphic Mapping		M. J. Downes
ENGINEERING AND TERRAIN GEOLOGY SECTION		
9. Kirkland Lake and Ramore Areas		C. L. Baker
10. Nassau Lake Area		M. L. T. Crosbie
11. Timmins Area		C. M. Tucker
12. Limestone-Dolostone Assessment Study		M. D. Johnson
GEOPHYSICS/GEOCHEMISTRY SECTION		
13. Marshall-O'Sullivan Lakes Area & Marathon Area, Airborne Geochemistry		I. Thomson
14. Kirkland Lake Area, Geochemical Reconnaissance		I. Thomson
15. Marshall-O'Sullivan Lakes Area, Aeromagnetic Survey		D. Guindon
16. Kirkland Lake Area, Aeromagnetic Survey		D. H. Pitcher
17. Cretaceous Basin Area, Electromagnetic Survey		D. H. Pitcher
MINERAL DEPOSITS SECTION		
18. Atikokan Area, Gold Mineralization Study		S. Wilkinson
19. Chromite Mineralization in Ontario		P. J. Whittaker
20. Cobalt Embayment, Uranium Study		H. D. Meyn
21. Cobalt Area, Metallogenesis of Base Metals		G. C. Patterson
22. Early Precambrian Porphyry Deposits and Geology and Mineralization of the Pickerel Arm, Canoe Lake, and High Lake Bodies		A. C. Colvine I. G. Sutherland

GEOSCIENCE RESEARCH GRANT PROGRAM

Summary of proposals and expenditures in years ending March 31

R — Received. A — Accepted.

Universities	1979		1980	
Proposals	R	A	R	A
Brock	2	1	2	0
Carleton	6	4	4	3
Guelph	1	1	1	0
Lakehead	0	0	1	0
Laurentian	3	1	3	2
McMaster	1	0	3	1
Ottawa	4	2	2	2
Queen's	3	1	3	2
Toronto	16	8	15	8
Waterloo	4	2	6	2
Western	5	2	6	5
Windsor	2	2	2	2
York	1	0	0	0
Total	48	24	48	27
Expenditures	\$401,153		\$475,567	

PUBLICATIONS RELEASED

Ontario Geological Survey

Types of Publications	1977	1978	1979
Preliminary Maps	61	200	183
Coloured Maps	28	12	14
N. Ont. Engineering & Terrain Geology	—	—	11
Geophysical/Geochemical	242	253	426
Aggregate Resource Inventory Papers	—	—	1
Guidebooks	—	—	1
Mineral Deposit Circulars	1	1	2
Miscellaneous Papers	5	6	7
Open File Reports	14	22	22
Reports	13	16	11
Studies	3	—	1

MINERAL RESOURCES GROUP

MINERAL RESOURCES BRANCH

4th Floor, Section Six, Main Office.

Telephone (416) 965-1559.

Branch Director	Dr. T. P. Mohide	1559
Mining Tax Assessment Section	Mine Assessor	4594
Mineral Statistics Section	G. Weatherson, Spvr.	0211
Metallic Minerals Section	Dr. G. Anders, Spvr.	1311
Industrial Minerals Section	S. E. Yundt, Spvr.	1172

VALUE OF ONTARIO MINERAL OUTPUT BY PLANNING REGIONS*

Planning Regions	1976	1977	1978
	\$	\$	\$
NORTHEASTERN REGION			
Metallic minerals	1,629,608,937	1,969,595,244	1,565,550,863
Non-metallic minerals	16,944,435	14,579,799	12,718,278
Structural materials	13,174,466	17,082,258	20,707,745
Total	1,659,727,838	2,001,257,301	1,598,976,886
NORTHWESTERN REGION			
Metallic minerals	379,579,485	434,419,503	416,978,952
Non-metallic minerals	706,502	646,542	762,387
Structural materials	7,781,078	9,167,464	12,102,147
Total	388,067,065	444,233,509	429,843,486
CENTRAL REGION			
Natural gas, petroleum	2,533,495	4,955,277	9,829,698
Non-metallic minerals	13,900,156	16,554,132	19,133,889
Structural materials	207,374,997	219,325,244	258,175,428
Total	223,808,648	240,834,653	287,139,015
EASTERN REGION			
Metallic minerals	27,378,820	31,972,001	66,799,060
Non-metallic minerals	692,480	715,468	534,220
Structural materials	70,143,241	82,482,902	89,455,693
Total	98,214,541	115,170,371	156,788,973
SOUTHWESTERN REGION			
Natural gas, petroleum	7,542,505	11,938,723	19,712,851
Non-metallic minerals	52,496,998	57,146,433	61,850,200
Structural materials	92,975,969	104,153,157	129,766,302
Total	153,015,472	173,238,313	211,329,353
ONTARIO TOTAL	2,522,833,564	2,974,734,147	2,684,077,713

*Based on Municipal Directory, 1979.

ONTARIO MINERAL PRODUCTION IN 1978 and 1979

1978 figures show final completion of shipments.

1979 figures are preliminary.

.....Figures not available.

—Nil.

METALLIC MINERALS	Unit	Quantity	1978	Value \$	Quantity 000s	1979	Value \$000s
Cadmium	kg	517,958	3,191,616		765		5,488
	lb	1,141,902			1,688		
Calcium	kg	574,764	2,688,932		477		2,335
	lb	1,267,138			1,052		
Cobalt	kg	907,016	24,026,091		1,112		67,320
	lb	1,999,628			2,452		
Copper	kg	197,039,368	323,999,680		184,888		435,240
	lb	434,397,447			407,608		
Gold	g	21,797,379	154,461,666		19,253		212,505
	oz	700,802			619		
Iron Ore	t	9,600,001	308,366,931		8,164		286,012
	st	10,582,190			9,000		
Lead	kg	7,060,175	5,731,508		8,619		11,312
	lb	15,565,022			19,002		
Magnesium	kg	8,309,413	19,825,112		9,172		25,073
	lb	18,319,120			20,220		
Nickel	kg	93,671,247	474,604,030		94,879		604,505
	lb	206,509,750			209,173		
Platinum Group	g	10,768,428	65,292,791		5,754		56,193
	oz	346,213			185		
Selenium	kg	31,481	1,487,485		13		417
	lb	69,403			28		
Silver	kg	443,071	87,906,253		438		166,985
	oz	14,245,058			14,067		
Tellurium	kg	5,307	266,912		2		112
	lb	11,700			5		
Tin	kg	98,544	1,423,708		111		2,158
	lb	217,252			245		
Uranium (U)	kg	4,454,664	363,844,834		4,419		390,870
	lb	9,820,853			9,742		
Zinc	kg	275,906,460	211,416,273		276,166		266,289
	lb	608,269,623			608,841		
Total Value, Metallic				\$2,048,533,822			\$2,532,814

NON-METALLICS	Unit	Quantity	1978	Value \$	Quantity 000s	1979	Value \$000s
Arsenious oxide	kg	....	....	....	—	—	—
	lb	....	....	....	—	—	—
Asbestos	t	—	—	—	—	—	—
	st	—	—	—	—	—	—
Barite	t	....	475,000		....		550
	st	....			....
Gemstones	kg	....	82,800		....		85
	lb	....			....
Gypsum	t	741,115	4,358,005		767		4,693
	st	816,939			845		

Nepheline Syenite	t	599,121	14,181,840	617	15,180
	st	660,418		680	
Peat	t	8,321	768,230	6	740
	st	9,172		7	
Quartz	t	846,500	6,978,328	848	6,967
	st	933,107		935	
Salt	t	4,865,203	61,679,276	4,962	70,235
	st	5,362,968		5,470	
Soapstone, Talc,					
Pyrophyllite	t	.....	440,324	.....	848
	st	.....		.....
Sulphur in smelter					
gas	t	299,915	5,130,912	201	4,226
	st	330,600		222	
Total Value Non-Metalliferous		\$91,094,715			\$103,524

STRUCTURAL MATERIALS	Unit	Quantity	1978	Value \$	Quantity 000s	1979	Value \$000s
Clay products	n/a			59,667,000			68,260
	n/a						
Cement	t	3,952,730	183,110,158		4,257		216,971
	st	4,357,139			4,692		
Lime	t	1,372,470	46,807,000		1,406		49,782
	st	1,512,889			1,550		
Sand & Gravel	t	89,215,952	144,253,467		95,254		162,750
	st	98,343,753			105,000		
Stone	t	33,815,562	94,517,217		35,834		108,625
	st	37,275,277			39,500		

Total Value,
Structural Materials \$528,354,842 \$606,388

FUELS	Unit	Quantity	1978	Value \$	Quantity 000s	1979	Value \$000s
Natural gas	m³	312,000,000		18,715,000		297,044	21,666
	Mcf	11,009,00				10,490	
Petroleum, crude	m³	94,000		8,154,000		78	6,977
	bbl	593,000				493	
Total Value, Fuels				\$ 26,869,000			\$ 28,643

ONTARIO MINERAL PRODUCTION

**ONTARIO MINE
TOTAL VALUE**

\$2,697,852,379

\$3,271,369

ONTARIO CRUDE OIL

Production in cubic metres and barrels

Year	m ³	Annual bbl	Cumulative from 1863 m ³	Cumulative from 1863 bbl
1975	111,923	704,323	8,491,463	53,435,937
1976	98,763	621,508	8,590,226	54,057,445
1977	98,047	617,000	8,688,273	54,674,445
1978	94,417	593,868	8,782,690	55,268,313
1979*	78,000	493,000	8,860,690	55,761,313

ONTARIO NATURAL GAS

Production in cubic metres and cubic feet

Year	000s m ³	Annual 000s cf	Cumulative from 1890 000s m ³	Cumulative from 1890 000s cf
1975	309,778	10,935,471	22,378,334	789,977,277
1976	140,438	4,957,616	22,518,772	794,934,893
1977	241,523	8,526,000	22,760,295	803,460,893
1978	356,205	12,574,626	23,116,500	816,035,519
1979*	297,004	10,490,000	23,413,544	826,525,519

*Preliminary.

EMPLOYMENT IN ONTARIO MINING INDUSTRY

Year	Mines	Metallurgical	Quarries	Clay, Shale Sand & Gravel Pits	Contract Diamond Drilling	Total
1976	29,335	12,302	1,898	3,996	338	47,869
1977	26,863	17,215	1,614	2,505	304	48,501
1978	38,355		1,500	2,263	240	42,358

OUTDOOR RECREATION GROUP

Room W-2340, Main Office.

Telephone (416) 965-5661.

Executive Co-ordinator	L. H. Eckel	W-2341 ... 3474
Secretary	Miss N. Nishi	W-2340 ... 3474
Administration	P. S. King	W-2311 ... 5661
Provincial Fisheries Scientist	K. H. Loftus	W-2342 ... 5661
Program Analyst	R. A. Beatty	W-2342 ... 5661
Enforcement Specialist	C. D. Copeland	W-2342 ... 5661
Provincial Parks Council, Chairman	Dr. G. Priddle	(519) 885-1211

WILDLIFE BRANCH

Room W-2320, Main Office.

Telephone (416) 965-4251.

Branch Director	J. D. Roseborough	W-2327 ... 4254
Program Development & Audit Section	D. A. Hagan, Spvr	W-2321 ... 4251
Habitat Development	D. L. Euler	W-2323 ... 4251
Moose/Caribou Program	R. A. Stefanski	W-2331 ... 4251
Upland Game/Waterfowl Program	J. L. Harcus	W-2332 ... 4251
Deer/Bear Program	M. C. Smith	W-2330 ... 4251
Non-game Program	I. E. Bowman	W-2322 ... 4251
Commercial Wildlife Program	M. Novak	W-2423 ... 3345
Policy Development Section	L. J. Post, Spvr	W-2306 ... 7641
Northern Environmental Policy	R. O. Standfield	W-2304 ... 7641
Wildlife Policy Specialist	P. Allen	W-2309 ... 7641
Wildlife Policy Specialist	(vacant)	W-2307 ... 7641
Resource Development	W. C. Currie	W-2302 ... 7641
Extension Development Section	L. Whistance-Smith, Spvr.	W-2326 ... 4251
Wildlife Services Section	(vacant)	W-2328 ... 4251
Hunter Education	W. M. McKittrick	W-2333 ... 4251
Legal Services	M. Chromec	W-2329 ... 4251
Data System	J. M. Barbowski	W-2325 ... 4251
		Telephone (416) 832-2761.
Wildlife Research Section	C. D. MacInnes, Spvr	Extension 241
Deer Study Scientist	R. L. Hepburn	Extension 241
Ungulate Behavior Scientist	A. B. Bubenik	Extension 241
Bio-Electronic Scientist	J. S. Lotimer	Extension 241
Moose Unit Scientist	D. G. Fraser	Extension 241
Rabies Unit Leader	D. H. Johnston	Extension 241
Upland Game/Waterfowl Scientist	H. G. Lumsden	Extension 241
Predator Scientist	G. B. Kolenosky	Extension 241
Disease/Parasitor Scientist	E. M. Addison	Extension 241

HUNTING STATISTICS — Estimates compiled from hunters surveyed by mail

Comparison between hunter numbers and licence sales (see Page 38) gives an estimate of the number of licence holders who did not hunt.

MOOSE

Year	Hunters	Hunter Days	RESIDENT				NON-RESIDENT				TOTALS	
			Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
1974	75,370	630,300	10,510	16,850	121,900	3,400	92,220	752,100	13,910			
1975	74,320	595,300	9,800	7,800	59,200	1,510	82,210	654,500	11,310			
1976	75,670	543,200	9,420	7,770	55,400	1,450	83,440	598,600	10,870			
1977	66,240	470,000	7,730	6,280	45,000	1,290	72,550	515,700	9,020			
1978	79,210	542,000	10,630	6,970	52,100	1,320	86,180	594,100	11,950			

DEER

Year	Hunters	Hunter Days	RESIDENT				NON-RESIDENT				TOTALS	
			Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
1974	80,380	487,100	12,530	3,990	23,600	*1,050	84,370	487,100	*13,580			
1975	82,030	442,900	11,740	3,010	16,400	*830	85,040	459,300	*12,140			
1976	78,250	433,900	14,180	3,240	16,700	*930	81,490	450,600	*15,110			
1977	85,840	433,200	13,510	2,720	14,300	*810	88,200	447,500	*14,310			
1978	87,950	450,100	13,490	2,860	14,600	480	90,810	464,700	13,970			

BEAR***

Year	Hunters	Hunter Days	RESIDENT				NON-RESIDENT				TOTALS	
			Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
1971	1,030	6,800	.....	9,010	48,400	.....	10,040	55,200	.....		
1972	1,120	7,400	6,330	9,300	49,500	2,620	10,420	56,900	8,950			
1973	1,220	12,900	3,680	9,140	62,200	2,120	10,360	75,100	5,800			
1974	1,140	6,200	1,950	9,500	52,100	1,680	10,640	58,300	3,630			
1975	1,220	6,900	1,870	9,030	56,800	1,760	10,250	63,700	3,630			

SMALL GAME**

Year	Hunters	Hunter Days	RESIDENT				NON-RESIDENT				SUMMER HUNTING		RESIDENT
			Hunters	Hunter Days	Hunters	Hunter Days	Year	Hunters	Hunter Days	Year	Hunters	Hunter Days	
1972	236,460	3,647,000	.....	.....	.....	.....	1972	18,720	369,500				
1973	247,240	3,356,000	7,960	57,700	.....	.....	1974	16,380	291,800				
1974	225,840	3,299,000	7,380	52,100	.....	.....	1975	16,170	246,800				
1976	242,310	3,388,000	8,530	62,300	.....	.....					
1978	226,693	2,975,400	8,724	55,100	.....	.....					

* Includes deer harvested on moose licences.

** Includes waterfowl.

*** Estimates of number of hunters and hunter-days are based on bear licences only
Harvest includes bear harvested on moose-bear, deer-bear and moose licences.

EXPENDITURE BY HUNTERS — (Excluding Licence Fees)

Survey Year*	Hunt	Estimates Resident	Compiled from Hunters Non-Resident	Surveyed by Mail Total
1972-73	Bear	\$ 199,000	\$2,077,000	\$ 2,276,000
1973-74	Bear	255,000	2,336,000	2,591,000
1973-74	Small Game	44,323,000	2,458,000	46,781,000
1974-75	Small Game .....	.....	3,557,000	3,557,000
1973-74	Deer	9,432,000	1,243,000	10,675,000
1973-74	Moose	13,791,000	6,070,000	19,861,000
1976-77	Moose	17,821,000	3,192,000	21,013,000
1976-77	Deer	12,000,000	809,000	12,809,000
1976-77	Small Game	53,561,000	3,252,000	56,813,000
1978-79	Small Game	47,634,000	3,278,431	50,912,431

HUNTING LICENCES SOLD

Year	DEER		MOOSE		BEAR	
	Resident	Non-Res	Resident	Non-Res	Resident	Non-Res
1975	91,490	4,617	82,750	7,934	1,585	9,115
1976	86,641	5,017	83,618	7,897	1,869	9,325
1977	95,114	4,501	74,834	6,392	1,872	8,977
1978	97,477	4,453	87,751	7,186	2,672	10,477
1979	85,921	1,762	77,937	7,378	2,666	11,247

Year	SMALL GAME		Resident	Non-Resident	TOTAL	Total
	Resident	Non-Res				
1975	388,065	8,752	563,890	30,418	594,308	
1976	384,021	9,046	556,149	31,285	587,434	
1977	389,014	9,225	569,834	29,095	589,929	
1978	399,943	9,651	587,643	31,767	619,410	
1979	353,077	11,527	519,601	31,914	551,515	

LAW ENFORCEMENT

Seizures and convictions
in years ending March 31

Year	Seizures	Convct
1974	5,056	4,510
1975	4,976	5,649
1976	5,791	6,988
1977	6,096	7,166
1978	9,630	8,365

LAND ACQUISITIONS FOR WILDLIFE MANAGEMENT

Areas in years ending March 31

Year	Hectares	Acres	Cost
1972	1,871	4,620	\$903,259
1973	1,040	2,569	\$572,323
1974	241	595	\$105,452
1975	384	948	\$242,025
1976	163	403	\$216,602

*Hunting year: September 1 to August 31.

FUR HARVESTS — in years ending June 30

Average Pelt Value, 1979		Totals from Sealing Officers' Reports and Fur Dealers' Returns				
		1975	1976	1977	1978	1979
\$ 36.00	Beaver	175,099	156,105	136,856	147,556	170,644
24.97	Mink	17,975	17,194	14,856	20,557	21,704
30.05	Marten	27,150	18,006	20,768	38,878	52,169
98.72	Otter	8,122	7,507	7,835	8,592	9,943
179.99	Fisher	3,992	2,790	2,165	2,693	3,300
375.59	Lynx	3,698	1,918	1,151	1,722	1,873
208.19	Bobcat	52	25	24	16	30
7.05	Muskrat	513,279	487,238	435,290	433,163	526,890
35.94	Raccoon	40,641	47,560	44,223	93,178	105,263
1.59	Squirrel	5,846	6,076	5,817	4,180	7,645
1.37	Weasel	4,924	4,689	3,576	3,685	5,694
95.47	Col'rd Fox	13,409	11,809	10,131	15,979	19,282
54.43	Arctic Fox	58	127	101	199	164
127.70	Timb. Wolf	1,248	741	285	431	381
70.75	Coyote	892	1,319	2,276	4,394	3,218
78.95	Black Bear	375	288	283	284	511
173.42	Wolverine	1	1	.....	11	8
4.37	Skunk	57	171	98	210	453
54.81	Gray Fox .....	.....	.....	.....	1	3
428.65	Polar Bear	18	15	17	24	21
Total Pelts		816,836	763,579	685,752	775,753	929,196
Total Value		\$ 7,230,167	6,410,167	7,998,708	11,284,007	20,234,367

TRAPPER LICENCES, 1979

Registered	2,843	@ \$5	=	\$14,215
Resident	8,710	@ \$5	=	43,550
Farmer, Indian Res	1,495	@ \$0	=	.....
Registered Treaty	2,915	@ \$1	=	2,915
Resident Treaty	20	@ \$5	=	100
Totals	15,983			60,780

HUNTER EDUCATION PROGRAM

Training began in 1957. It became mandatory for new hunters in 1960 and for new hunters under the age of 20 years in 1968.

Year	ACTIVE INSTRUCTORS at Dec. 31	YEARLY	STUDENTS TRAINED	HUNTING ACCIDENTS		
				Non-Fatal	Fatal	Total
1975	1,005	31,450	388,387	85	7	92
1976	1,005	31,785	420,172	50	6	56
1977	1,011	32,126	452,298	67	4	71
1978	879	38,500	490,798	60	8	68
1979	1,110	35,080	525,878	46	5	51

PELTS — EXPORTED OR TANNED — in years ending June 30

Pelt	1976		*1977	
	Quantity	Value	Quantity	Value
Beaver	159,984	\$2,873,312.64	138,837	\$2,928,072.33
Bobcat	29	1,475.23	20	2,062.00
Fisher	2,820	169,905.00	2,219	251,678.98
Arctic Fox	152	4,636.00	153	5,104.08
Col'rd Fox	14,183	445,488.03	11,774	650,631.24
Lynx	1,954	248,490.18	1,125	260,921.25
Marten	18,463	146,266.96	21,858	334,208.82
Mink	17,512	148,151.52	15,743	178,525.62
Muskrat	479,671	1,515,760.36	449,291	1,936,444.21
Otter	7,757	363,105.17	7,994	701,153.74
Raccoon	71,172	864,028.08	64,728	1,232,421.12
Weasel .....	.....	.....	.....	.....
Skunk	212	375.24	3	4.50
Wolverine	3	279.33	.....	.....
Total	773,912	6,781,233.74	713,745	8,481,227.89

*Total Royalties Collected: \$265,499.10

Pelt	*1978		1979	
	Quantity	Value	Quantity	Value
Beaver	148,901	\$3,103,096.84	170,635	\$6,142,860.00
Mink	21,583	301,514.51	20,082	501,447.54
Marten	38,179	743,345.13	52,074	1,564,823.70
Otter	8,896	577,617.28	10,143	1,001,316.96
Fisher	2,690	270,102.90	3,993	781,700.07
Lynx	1,738	523,138.00	1,919	720,757.21
Bobcat	25	3,159.50	37	7,703.03
Muskrat	480,669	2,605,225.98	538,810	3,798,610.50
Raccoon	96,099	2,240,067.69	106,798	3,838,320.12
Arctic Fox	226	8,375.56	182	9,906.26
Coloured Fox .....	.....	.....	20,088	1,917,801.36
Grey Fox .....	.....	.....	7	383.67
Polar Bear	10	6,019.00	34	14,574.10
Timber Wolf	971	81,224.15	922	117,739.40
Coyote	3,565	150,835.15	3,531	249,818.25
Squirrel	3,548	5,251.04	8,028	12,764.52
Weasel	3,342	4,511.70	6,287	8,613.19
Black Bear	353	17,706.48	553	43,659.35
Skunk	274	901.46	550	2,403.50
Wolverine	8	1,316.80	9	1,560.78
Total	827,434	11,692,220.01	944,682	20,673,763.51

*Total Royalties Collected: \$588,552.80

29 PROVINCIAL WILDLIFE AREAS

	Hectares	Acres
Aylmer Provincial Wildlife Area	184	455
Brighton Provincial Wildlife Area	388	959
Bruce Recreation Area	3 925	9,699
Camden Lake Wildlife Management Area	1 052	2,599
Darlington Provincial Park	111	274
Fingal Provincial Wildlife Area	293	724
Gananoque Provincial Wildlife Area	567	1,401
Holiday Beach Provincial Park	198	489
Holland Marsh Provincial Wildlife Area	573	1,416
Hoople Creek Provincial Wildlife Area	105	259
Hullett Provincial Wildlife Area	2 347	5,799
Kolapore Uplands Recreational Area	4 209	10,400
Long Point Provincial Wildlife Area	381	941
Luther Marsh Wildlife Area	5 666	14,001
Matchedash Bay Provincial Wildlife Area	225	556
McRae Point Provincial Park	152	375
Mountain Provincial Wildlife Area	1 457	3,600
Nonquon River Wildlife Area	1 133	2,800
Point Petre Provincial Wildlife Area	1 276	3,153
Presqu'ile Provincial Park	931	2,300
Puslinch Crown Resource Managem't Area	138	341
Rankin Wildlife Management Area	13 703	33,860
Rondeau Provincial Park	4 654	11,500
St. Edmunds Provincial Wildlife Area	6 799	16,800
Scugog Island	182	450
Sibbald Point Provincial Park	225	556
Stag Island Wildlife Management Area	17	42
Tiny Marsh Provincial Wildlife Area	567	1,401
Wye Marsh Provincial Wildlife Area	919	2,271

13 WILDLIFE EXTENSION LANDOWNER AGREEMENT AREAS

	Hectares	Acres
Aylmer Ponds	43	106
Beverly Swamp	430	1,063
Binbrook	401	991
Calton Swamp	96	237
Christie	340	840
Crooks Hollow	17	42
Hawk Cliff	34	84
Lake St. Lawrence	6 070	14,999
Mud Lake	61	151
Orangeville Reservoir	316	781
Valens	223	551
Waterford Lakes	304	751
Willoughby Marsh	227	561

OUTDOOR RECREATION GROUP

PARKS AND RECREATIONAL AREAS BRANCH

Room W-3329, Main Office.

Telephone (416) 965-5160.

Branch Director	R. J. Vrancart	W-3329	5160
Policy Co-ordinator	W. B. Sargent	W-3329	2745
Planning Manager	G. D. Boggs	W-3342	3981
Sr. Planner, Research	D. Hallman	W-3344	3981
Sr. Planner, Parks & Heritage Res.	M. Garscadden	W-3343	3981
Sr. Planner, Rec. Areas & Resources	K. McCleary	W-3350	3981
Research Planner	D. Driscoll	W-3352	3981
Recreational Areas Planner	R. Phillips	W-3346	3981
Earth Sciences Planner	R. J. Davidson	W-3349	3981
Life Sciences Planner	T. J. Beechey	W-3348	3981
Cultural Resources Heritage Planner	G. Forma	W-3345	3981
Research Clerk	Mrs. C. Tyndorf	W-3340	3981
Planning Technician	R. Speck	W-3351	3981
Operations Manager	W. Robertson	W-3521	1245
Parks Operations Officer	J. D. Barrow	W-3521	1245
Interpretive Specialist	(Vacant)	W-3521	1245
Rec. Areas Operations Officer	(Vacant)	W-3521	1245
Recreation Areas Technician	B. Huis	W-3521	1245
Admin. Extension Services	H. Christian	W-3521	6278
Mgmt. Information Co-ordinator	S. Girling	W-3521	1245
Mgmt. Information Clerk	Ms. D. Gluzdziecka	W-3521	1245
Development Manager	G. Ashenden	W-3320	2745
Development Clerk	Ms. S. Stuart	W-3320	2745
Senior Landscape Architect	G. Pittenger	W-3320	2745
Design Engineer	R. B. Lockwood	W-3320	2745
Development Engineer	I. Johnson	W-3320	2745
Environmental Sanitation Co-ord.	S. Cowan	W-3320	2745
Draftsman	Ms. M. Lehoczky	W-3320	2745
Design Co-ordinator	H. Miles	W-3320	2745
Sanitary Engineer	J. Kolodziej	W-3320	2745
Electrical Designer	J. Konya	W-3320	2745
Architectural Designer	A. Chappelle	W-3320	2745
Marketing & Communications Mgr.	W. Yetman	W-3301	2780
Information Officer	Mrs. S. Fasken	W-3301	3081
Audio Visual Group Leader	L. Walton	W-3311	2780
Head, Graphic Design Group	M. Medved	W-3301	2780
Graphic Designer	A. Gokhan	W-3301	2780
Audio Visual Designer	G. Merchant	W-3311	2780
Sr. Graphic Designer	J. Jordan	W-3301	2780
Sr. Travel Counsellor	Ms. H. Borrowman	W-3304	3081
Marketing Clerk	N. Beaudry	W-3301	2780

PUBLIC USE OF PROVINCIAL PARKS

Year	Vehicle Entries	Interior Campers	Campers	Average Days	Camper Nights	Total of Visitors
1975	3,401,561	94,280	1,621,887	2.5	3,979,473	11,139,864
1976	3,431,189	99,373	1,515,353	2.5	3,747,209	10,616,237
1977	3,276,625	92,611	1,371,039	2.5	3,807,344	10,431,166
1978	2,940,238	82,601	1,324,808	2.2	3,116,421	9,570,382
1979	(NR)	73,961	1,355,733	2.3	3,259,752	**5,161,563

PERSONAL VISITOR SERVICES CONTACTS

Year	Parks	Guided Tours	Film Programs	Other Programs	Individual Contacts	Total Contacts
1978	58	68,462	172,631	78,178	258,915	578,186
1979	56	45,480	168,280	74,106	217,195	505,061

NON-PERSONAL VISITOR SERVICES CONTACTS

Year	Parks	Visitor and Activity Centres	Interpretive Publications		Self-Guiding Interpretive Trails	Total Contacts
			Free	Priced		
1978	58	870,877	890,221	188,122	354,094	2,303,314
1979	57	557,216	443,402	108,935	338,979	1,448,532

GROWTH OF PROVINCIAL PARKS — Areas in hectares and acres

Year	Camping Parks		No.	Reserve Areas		No.	Provincial Parks	
	Parks	Units		ha	Ac		ha	Ac
1975	96	20,332	104	510,860	1,262,335	121	4,235,710	10,466,668
1976	96	19,851	105	508,720	1,257,047	122	4,359,257	10,771,959
1977	97	20,035	107	951,760	2,351,800	126	4,360,546	10,775,144
1978	98	20,176	139	964,334	2,382,913	128	*4,269,268	*10,543,250
1979	97	20,723	134	920,558	2,274,738	128	*4,255,375	*10,514,349

*Boundaries of some parks redefined.

NR - Vehicle entries no longer recorded.

**Visitation calculated from permit sales.

128 PROVINCIAL PARKS IN OPERATION IN 1979

Region, District Provincial Park	Area Hectares	Area Acres	Developed Campsites	Campers	Camper Nights
NORTHWESTERN REGION					
RED LAKE					
Pakwash	631	1,558	60	2,734	4,616
KENORA					
Rushing River	190	469	194	19,991	41,710
Sioux Narrows	129	320	71	4,670	8,355
FORT FRANCES					
Caliper Lake	134	331	92	6,252	11,044
Lake of the Woods	1,097	2,711	100	5,704	13,612
DRYDEN					
Aaron	70	173	98	8,061	10,142
Blue Lake	354	874	188	14,697	34,445
SIOUX LOOKOUT					
Ojibway	2,630	6,500	50	1,702	4,069
IGNACE					
Sandbar Lake	3,157	7,800	77	9,874	12,004
Total, 9 Parks	8,392	20,736	930	73,685	139,997
NORTH CENTRAL REGION					
ATIKOKAN					
Quetico (Dawson Trail) ..	475,783	1,175,684	133	6,825	14,433
THUNDER BAY					
Inwood	33	82	85	8,969	9,158
Kakabeka Falls	420	1,039	156	27,211	38,725
Middle Falls	4	11	25	2,017	2,103
Sibley	24,435	60,380	217	12,616	25,130
NIPIGON					
Lake Nipigon	1,458	3,604	80	3,954	6,530
GERALDTON					
Klotz Lake	119	293	30	2,776	3,424
MacLeod	74	183	84	6,414	11,594
TERRACE BAY					
Neys	3,445	8,512	150	22,969	26,884
Rainbow Falls	575	1,422	225	21,877	27,000
WHITE RIVER					
Obatanga	9,409	23,250	120	13,873	17,106
White Lake	1,726	4,265	290	13,838	21,286
Total, 12 Parks	517,481	1,278,725	1,595	143,339	203,373
NORTHERN REGION					
HEARST					
Fushimi Lake	5,294	13,081	40	3,042	5,545
Nagagamisis	8,131	20,092	165	4,577	11,481
MOOSONEE					
Polar Bear	2,408,700	5,952,018	—	—	—
Tidewater	980	2,421	36	904	1,749
KAPUSKASING					
Remi Lake	2,964	7,325	122	7,006	15,748
COCHRANE					
Greenwater	5,350	13,220	107	4,919	10,175
TIMMINS					
Kettle Lakes	1,261	3,116	165	9,591	24,848

Region, District Provincial Park	Area Hectares	Acres	Developed Campsites	Campers	Camper Nights
KIRKLAND LAKE					
Esker Lakes	3,237	8,000	130	3,718	11,043
Kap-Kig-Iwan	276	681	64	5,207	8,014
CHAPLEAU					
Five Mile Lake	456	1,128	45	1,771	3,326
Ivanhoe Lake	1,589	3,926	148	5,276	14,982
Missinaibi Lake	48,403	119,606	44	2,139	6,752
The Shoals	11,198	27,670	58	2,550	5,197
Wakami Lake	8,806	21,760	68	3,068	13,615
Total, 14 Parks	2,506,645	6,194,044	1,192	53,768	132,475
NORTHEASTERN REGION					
WAWA					
Lake Superior	155,659	384,641	352	31,416	38,655
SAULT STE. MARIE					
Batchawana	169	418	—	—	—
Pancake Bay	466	1,151	340	31,443	48,175
BLIND RIVER					
Mississagi	2,883	7,124	101	5,513	18,972
ESPANOLA					
Chutes	108	268	91	16,978	23,818
SUDSBURY					
Fairbank	105	260	160	7,980	19,620
Halfway Lake	4,730	11,688	215	9,067	17,319
Killarney	34,126	84,328	128	7,205	28,920
Windy Lake	118	292	76	4,297	12,433
TEMAGAMI					
Finlayson Point	37	92	114	7,197	17,324
NORTH BAY					
Antoine	12	30	—	—	—
Marten River	418	1,034	216	12,319	27,721
Restoule	662	1,635	278	8,829	37,346
Samuel de Champlain	2,349	5,805	216	11,469	25,001
Total, 14 Parks	201,842	498,766	2,287	153,713	315,304
ALGONQUIN REGION					
PARRY SOUND					
Grundy Lake	2,554	6,310	521	23,992	65,538
Killbear	1,756	4,340	894	39,023	161,296
Oastler Lake	32	78	140	11,725	34,092
Sturgeon Bay	14	35	82	5,909	17,414
BRACEBRIDGE					
Arrowhead	963	2,379	389	26,564	81,055
Mikisew	131	324	265	9,393	31,360
BANCROFT					
Lake St. Peter	25	62	60	4,064	8,033
Petroglyphs	1,555	3,842	—	—	—
Silent Lake	844	2,085	122	9,908	19,058
ALGONQUIN PARK					
Algonquin	765,345	1,891,206	1,385	85,422	251,828
Driftwood	265	655	80	7,602	12,482
PEMBROKE					
Bonnechere	113	280	113	5,679	20,483
Carson Lake	13	32	45	2,315	5,492
Total, 13 Parks	773,610	1,911,628	4,096	231,596	708,131

Region, District Provincial Park	Area Hectares	Area Acres	Developed Campsites	Campers	Camper Nights
EASTERN REGION					
OTTAWA					
Fitzroy	185	457	251	12,017	24,103
Rideau River	98	242	186	8,550	16,578
CORNWALL					
Carillon	694	1,714	416	13,837	28,823
South Nation	5	13	—	—	—
BROCKVILLE					
Charleston Lake	902	2,230	228	12,595	43,168
LANARK					
Silver Lake	43	107	171	10,413	25,875
Murphys Point	1,240	3,061	174	5,724	12,723
TWEED					
Bon Echo	6,644	16,417	500	26,285	98,135
Sharbot Lake	69	170	185	8,955	26,099
NAPANEE					
Ferris	198	490	165	3,538	7,763
Lake on the Mountain ..	104	256	—	—	—
North Beach	89	221	—	—	—
Outlet Beach, Sandbanks	1,002	2,477	433	36,245	114,691
Presqu'ile	937	2,315	485	26,393	61,182
Total, 15 Parks	12,210	30,170	3,194	164,552	459,140
CENTRAL REGION					
LINDSAY					
Balsam Lake	449	1,109	483	27,836	79,414
Darlington	209	516	359	35,406	57,272
Emily	83	206	299	17,575	51,214
Mark S. Burnham	39	97	—	—	—
Serpent Mounds	56	138	113	11,067	30,270
HURONIA					
Awenda	1,552	3,835	150	10,504	20,222
Bass Lake	39	96	92	13,282	30,049
Devil's Glen	6	14	43	4,051	5,720
Earl Rowe	300	742	555	32,714	73,379
Mara	45	112	100	7,681	19,787
McRae Point	138	340	203	11,922	28,767
Six Mile Lake	94	233	192	21,390	40,849
Springwater	47	117	—	—	—
Wasaga Beach	1,042	2,575	—	—	—
MAPLE					
Sibbald Point	225	556	656	39,224	91,300
CAMBRIDGE					
Bronte Creek	640	1,581	—	—	—
NIAGARA					
Rock Point	98	242	128	8,625	14,054
Total, 17 Parks	5,062	12,509	3,373	241,277	542,297
SOUTHWESTERN REGION					
SIMCOE					
Long Point	141	349	263	18,827	64,140
Selkirk	73	180	145	5,997	16,150
Turkey Point	315	778	473	17,303	21,997

Region, District Provincial Park	Area Hectares	Area Acres	Developed Campsites	Campers	Camper Nights
AYLMER					
Iroquois Beach	227	560	232	10,927	32,526
John E. Pearce	68	168	—	—	—
Port Bruce	5	13	—	—	—
CHATHAM					
Holiday Beach	92	227	45	4,933	11,793
Ipperwash	56	138	265	18,639	75,135
Pinery	2,542	6,281	1,265	104,317	246,688
Rondeau	4,816	11,900	226	20,015	64,471
Wheatley	241	596	242	12,033	27,490
WINGHAM					
Point Farms	308	760	200	15,219	42,041
OWEN SOUND					
Craigleith	66	162	170	19,865	40,526
Cypress Lake	669	1,654	242	22,709	55,474
Fathom Five	9,977	24,653	—	—	—
Inverhuron	289	713	—	—	—
MacGregor Point	1,001	2,473	136	10,354	29,470
Sauble Falls	20	50	152	12,665	31,134
Total, 18 Parks	20,906	51,655	4,056	293,803	759,035
WATERWAY PARKS					
Chapleau-Nemegosenda	8,159	20,160	(Chapleau) .....	.....	.....
Lady Evelyn	2,464	6,088	(Temagami) .....	.....	.....
Mattawa	3,258	8,050	(North Bay) .....	.....	.....
Mississagi	19,800	49,000	(Blind River, Espanola, Chapleau) .....	.....	.....
Winisk	174,000	429,000	(Geraldton) .....	.....	.....
Total, 5 Parks	207,681	512,298	.....	.....	.....
NATURE RESERVE PARKS					
Cavern Lake	189	467	(Thunder Bay) .....	.....	.....
East Sister Island	53	131	(Chatham) .....	.....	.....
Gibson River	168	415	(Huronia) .....	.....	.....
Matawatchan	65	160	(Pembroke) .....	.....	.....
Montreal River	44	108	(Sault Ste. Marie) .....	.....	.....
Ojibway Prairie	65	161	(Chatham) .....	.....	.....
Ouimet Canyon	777	1,920	(Thunder Bay) .....	.....	.....
Peters Woods	34	83	(Lindsay) .....	.....	.....
Porphyry Island	107	264	(Thunder Bay) .....	.....	.....
Trillium Woods	10	25	(Aylmer) .....	.....	.....
Waubashene Beaches	34	84	(Huronia) .....	.....	.....
Total, 11 Parks	1,546	3,818	.....	.....	.....
TOTAL, 128 Parks	4,255,375	10,514,349	20,723	1,355,733	3,259,752

133 PROVINCIAL PARK RESERVE AREAS IN 1979

Region, District Reserve Area	Hectares	Area Acres
NORTHWESTERN REGION		
RED LAKE		
Berens Dowling	3,610	8,921
Lund Lake	275	679
Stout Lake	224,811	555,520
Telescope Lake	783	1,934
Woodland Caribou	362,598	896,000
KENORA		
Pipestone Peninsula	1,429	3,530
Pistol Lake	1,629	4,025
FORT FRANCES		
Pow-Wow Grounds	700	1,730
Sand Point Island	889	2,197
Total, 9 Areas	596,724	1,474,536
NORTH CENTRAL REGION		
ATIKOKAN		
Warner Lake	302	745
White Otter Lake	24,281	60,000
THUNDER BAY		
Arrow Lake	405	1,000
Arrowhead Peninsula	344	850
Inwood	405	1,000
Kashabowie	7,742	19,130
La Verendrye W.R.	1,311	3,240
Silver Falls	3,637	8,988
NIPIGON		
Cypress River	243	600
Gravel Bay	101	250
Gravel River	324	800
Humboldt Bay	29,542	73,000
Kopka Lake	4,047	10,000
Partridge Lake	2,631	6,500
GERALDTON		
Esnagami Lake	23,472	58,000
Lukinto Lake	911	2,250
Purgatory Chutes	40	100
TERRACE BAY		
Slate Island	3,963	9,793
Steel River	1,093	2,700
Total, 19 Areas	104,794	258,946
NORTHERN REGION		
HEARST		
Nagagami Lake	1,653	4,085
Rogers	611	1,510
KAPUSKASING		
Missinaibi W.R.	11,131	27,505

Region, District Reserve Area		Hectares	Area Acres
COCHRANE			
Long Point Peninsula	7,487	18,500	
Otter Rapids	197	486	
Pierre-Montreuil	17,032	42,088	
TIMMINS			
Dana-Jowsey Lakes	2,590	6,400	
KIRKLAND LAKE			
McCann	259	640	
CHAPLEAU			
Missinaibi Lake	18,434	45,552	
The Shoals	6,227	15,387	
GOGAMA			
Dividing Lake	7,786	19,240	
La Motte Lake	506	1,250	
Total, 12 Areas	73,913	182,643	
NORTHEASTERN REGION			
WAWA			
Kakakiwibik	23,829	58,881	
Kawapitapika Lake	1,133	2,800	
Pothole	352	870	
SAULT STE. MARIE			
Marks Bay	104	258	
BLIND RIVER			
Aubrey Falls	6,880	17,000	
Mashagami	259	640	
Mississagi	39,255	97,000	
ESPAÑOLA			
La Cloche	4,969	12,278	
SUDSBURY			
Wanapitae Lake	1,349	3,334	
TEMAGAMI			
W. B. Greenwood	9,308	23,000	
NORTH BAY			
Restoule	467	1,155	
South Bay	1,604	3,963	
Total, 12 Areas	89,509	221,179	
ALGONQUIN REGION			
BRACEBRIDGE			
Bigwind Lake	1,961	4,847	
Chetwynd	85	210	
Ragged Falls	139	344	
MINDEN			
Buckhorn	385	950	
Gull River	27	67	
Red Pine Lake	2,914	7,200	
BANCROFT			
Kawartha Highlands	1,538	3,800	
McKenzie Lake	1,379	3,408	
PEMBROKE			
Centennial Lake	4,057	10,025	
Madawaska River	1,052	2,600	
Round Lake	124	307	

Region, District Reserve Area		Hectares	Area Acres
PARRY SOUND			
Blackstone Harbour		6,772	16,734
Franklin Island		7	18
Magnetawan W. R.		7,921	19,572
McDonald Bay		445	1,100
O'Donnell Point		862	2,130
Round Lake		982	2,427
Shawanaga Basin		1,036	2,560
South Limestone Island		5	11
Total, 19 Areas		31,691	78,310
EASTERN REGION			
BROCKVILLE			
Blue Mountain		726	1,795
LANARK			
Kilmarnock		26	63
Mouth of Tay		64	159
TWEED			
Baudner Property		35	86
NAPANEE			
Casey Point		33	81
Sandbanks		90	222
CORNWALL			
Cornwall Recreation Area		83	204
Total, 7 Areas		1,057	2,610
CENTRAL REGION			
HURONIA			
Allandale		80	198
Bass Lake		185	457
Boyne Valley (Primrose)		1,073	2,652
Couchiching		44	108
Devil's Glen		55	135
Giant's Tomb		479	1,184
Gloucester Pool		36	89
Lavender Falls		202	499
Matchedash		2,509	6,200
Minesing Swamp		438	1,082
Mono Cliffs		531	1,313
Nottawasaga Lookout		219	540
Scott's Falls		489	1,207
Wasaga Backlands		877	2,171
MAPLE			
Cheltenham		100	246
Credit Forks		205	507
Duclos Point		137	338
Grange Property		142	350
CAMBRIDGE			
Burlington Parkway Belt		26	65
Cranberry Bog		9	20
Yaremko-Ridley		64	160

Region, District Reserve Area	Hectares	Area Acres
LINDSAY		
Harris Island	75	186
Indian Point	857	2,118
Kendal Recreation Area	349	863
Quackenbush Site	49	121
Scugog Island	168	415
Wolf Island	188	464
NIAGARA		
James N. Allen	113	278
Short Hills	510	1,259
Total, 29 Areas	10,209	25,225
SOUTHWESTERN REGION		
AYLMER		
East Zorra Trail	24	60
Kamoka	121	300
CHATHAM		
Fish Point	110	273
Fox Property	7	18
Lighthouse Point	97	238
Tremblay Beach	62	154
WINGHAM		
Stinson Estate	48	119
OWEN SOUND		
Beaver Valley Lowlands	540	1,334
Black Creek	285	704
Cape Chin	437	1,080
Colpoys Bluffs	212	523
Cyprus Lake	287	709
Dorcas Bay	68	168
Dunks Bay		
Dyer Bay	61	151
Eugenia Lake	4	10
Hoggs Fall	82	204
Hope Bay	462	1,141
Johnston Harbour	2,519	6,224
Kolapore Uplands	1,934	4,780
Lion's Head Lookout	1	3
Lion's Head Recreation Area	486	1,200
Meaford Lookout	404	997
Pretty River Valley	849	2,098
Spring Creek	31	78
Umbrella Lake	3,530	8,723
Total, 26 Areas	12,661	31,289
TOTAL, 133 Areas	920,558	2,274,738

OUTDOOR RECREATION GROUP

FISHERIES BRANCH

Room W-2354, Main Office.

Telephone (416) 965-7883.

Branch Director	A. S. Holder	W-2347 7885
Commercial Fisheries Specialist	J. W. Rousom	W-2448 7883
Co-ordinator, Policy Development	F. P. Maher	W-2346 7885
Population Dynamics Section	C. H. Olver, A/Sprv.	W-2350 7885
Client Services Section	G. R. Whitney, Mgr.	W-2349 7885
Co-ordinator, Public Involvement	C. I. Goddard	W-2345 7885
Extension Specialist	A. A. Wainio	W-2353 7885
Data Systems Biologist	W. G. Simpson	W-2446 7883
Data & Information Biologist	L. Greig	W-2443 7883
Economist	N. Bedi	W-2445 7883
Commercial Development Co-ordinator	J. C. Tilt	W-2442 7883
Fish Culture Section	J. M. Byrne, Spvr.	W-2451 7883
Data Systems Biologist	E. A. Young	W-2454 7883
Production Biologist	J. D. Hynes	W-2453 7883
Fish Health Biologist	A. Sippel	W-2449 7883
Assessment Biologist	B. A. Barton	W-2452 7883
Fish Nutrition Specialist	C. Y. Cho	(519) 824-4120-2212
Environmental Dynamics Section	D. P. Dodge, Spvr.	W-4422 7887
Habitat Enhancement Biologist	R. M. Biette	W-4422 7887
Habitat Protection Biologist	J. T. Allin	W-4422 7887
Aquatic Habitat Inventory Biologist	G. A. Goodchild	W-4422 7887
Inventory Data Systems & Lab Spec.	G. E. Gale	W-4422 7887

Box 50, Maple, Ontario L0J 1E0.

Telephone (416) 832-2761.

Fisheries Research Section	A. H. Lawrie, Spvr.	Ext. 251
Age/Growth Studies	J. Casselman	251
Brook Trout Studies	J. H. Fraser	251
Coregonid Dynamics	D. O. Evans	251
Limnology	A. M. McCombie	251
Selective Breeding	P. Ihssen	251
Smallmouth Bass	J. A. MacLean	251
Systems Ecology	B. Shuter	251
Harkness Memorial Lab (summer)	J. A. MacLean	(705) 637-2103
Box 110, Whitney, Ontario K0J 2M0		

RESEARCH STATIONS

Fisheries Research Station	R. A. Ryder	(807) 683-6232
Box 5000, Thunder Bay, Ont. P7C 5G6	P. J. Colby	475-1635
Sault Ste. Marie Research Station	W. H. Kwain	(705) 942-1411
875 Queen St. E., S.S. Marie, Ont. P6A 2B3		
South Baymouth Fisheries Laboratory	B. Henderson	(705) 859-3137
R.R. 1, Tehkummah, Ont. P0P 2C0	J. A. Reckahn	3137
Wheatley Fisheries Research Station	J. Collins	3137
R.R. 2, Wheatley, Ont. N0P 2P0	S. J. Nepszy	(519) 825-4171
Glenora Fisheries Research Station	J. H. Leach	4171
R.R. 4, Picton, Ont. K0K 2T0	W. J. Christie	(613) 476-2400
	D. A. Hurley	2400

FISH PLANTINGS — Numbers in 000s of Fish (F) and Eggs (E)
Stocked from Ontario Fish Culture Stations

Species		1975	1976	1977	1978	1979
Bass, Largemouth	E	....	....	36	....	....
	F	209	140	77	112	....
Bass, Smallmouth	E	....	....	59	....	....
	F	106	106	184	185	79
Maskinonge	E	....	....	....	....	....
	F	1,186	1,362	949	1,271	1,490
Salmon, Chinook	E	....	....	....	....	....
	F	....	....	....	393	147
Salmon, Coho	E	....	....	....	....	....
	F	209	371	209	201	286
Splake	E	....	....	....	377	....
	F	557	672	952	185	800
Trout, Aurora	E	....	....	....	....	....
	F	30	8	....	38	21
Trout, Brook	E	....	....	....	380	18
	F	1,521	1,583	1,854	1,078	682
Trout, Lake	E	280	90	120	120	6
	F	1,270	2,327	2,088	1,536	1,478
Trout, Rainbow	E	....	285	350	....	....
	F	1,387	1,280	1,023	1,057	992
Walleye	E	8,560	7,850	7,850	....	13,450
	F	....	10	10	8	10
Total		15,316	16,093	15,763	6,946	19,461

COMMERCIAL FISHING LICENCES

Year	Food-Fish Harvesting	Bait-Fish Harvesting	Bait-Fish Dealers	Bait-Fish Preservers	Total
1975	1,121	1,590	1,606	96	4,413
1976	1,086	1,595	1,753	107	4,541
1977	1,056	1,605	1,731	98	4,490
1978	1,048	1,679	1,832	99	4,656
1979	1,093	1,549	1,791	114	4,547

ANGLING LICENCES

Year	Number Sold to Non-Residents
1975	647,848
1976	627,364
1977	630,120
1978	654,672
1979	673,925

FISH DISTRIBUTION from Ontario Fish Culture Stations
 Numbers and weights in year ending March 31, 1980 (E — Eggs)

Station	Species	Number	kg	Ibs
Chatsworth	Coho Salmon	156,339	2,625	5,780
	Rainbow Trout	136	20	43
	Lake Trout	5,474E		
		90,384	1,624	3,576
	Splake	420,615	33,903	74,675
Codrington	Rainbow Trout	32,451	3,599	7,926
	Brook Trout	33,120	3,586	7,897
	Lake Trout	520E		
Deer Lake	Rainbow Trout	140,673	3,855	8,491
	Lake Trout	101,416	898	1,976
	Maskinonge	1,490,276	136	299
Dorion	Brook Trout	15,160	1,373	3,023
	Lake Trout	35,196	381	838
Hill Lake	Brook Trout	17,500E		
		167,355	5,548	12,220
	Lake Trout	40,000	662	1,457
	Aurora Trout	21,090	4	8
Normandale	Rainbow Trout	637,748	18,660	41,101
North Bay	Brook Trout	4,604	95	208
	Lake Trout	255,285	4,927	10,851
Pembroke	Lake Trout	127,325	657	1,445
Sandfield	Brook Trout	95,768	3,712	8,176
	Splake	180,698	4,492	9,894
	Smallmouth Bass	79,003	188	413
Skeleton Lake	Rainbow Trout	44,281	2,907	6,401
	Brook Trout	108,000	1,626	3,581
	Lake Trout	62,400	394	867
	Splake	182,176	2,758	6,073
Tarentorus	Rainbow Trout	40,276	742	1,633
	Brook Trout	143,918	6,099	13,433
	Lake Trout	535,247	6,985	15,385
	Splake	17,000	346	760
Westport	Rainbow Trout	48,346	1,868	4,113
	Brook Trout	46,618	4,286	9,439
	Lake Trout	80,842	1,777	3,912
White Lake	Rainbow Trout	49,100	2,593	5,710
	Brook Trout	67,450	4,476	9,858
	Lake Trout	150,000	590	1,299
	Walleye	13,450,000E		
		10,000	8	16
Wiarton	Coho Salmon	129,633	262	575
	Chinook Salmon	147,450	71	155

EMPLOYMENT AND INVESTMENT

Classification		Lake Ontario	Lake Erie	Lake Huron
MEN EMPLOYED	Number	341	616	116
FISHING BOATS				
12.2 m and over	Number	2	129	16
(40' and over)	kg	30,844	3,317,557	203,208
	(Tons)	(34)	(3657)	(224)
6.1 m to 11.9 m	Value \$	75,000	8,929,350	846,701
(20' to 39')	Number	61	36	12
under 6.1 m	Value \$	460,875	431,915	172,500
(under 20')	Number	182	63	12
	Value \$	217,230	77,300	15,650
FISHING GEAR				
Gill Nets	Metres	954,723	6,420,358	848,927
	(Yards)	(1,040,648)	(6,998,190)	(925,330)
	Value \$	594,117	3,274,534	661,719
Pound Nets	Number	—	20	2
	Value \$	—	52,000	3,000
Trap Nets	Number	88	136	124
	Value \$	59,300	233,900	224,441
Hoop Nets	Number	868	169	3
	Value \$	266,240	58,950	2,500
Seine Nets	Metres	2,072	3,382	—
	(Yards)	(2,267)	(3,700)	—
	Value \$	16,375	42,350	—
Night Lines	Hooks	24,751	9,075	—
	Value \$	11,540	3,970	—
Dip Nets	Number	6	6	1
	Value \$	465	131	198
Trawls	Number	—	266	—
	Value \$	—	384,400	—
SHORE INSTALLATIONS				
Freezers & Ice Houses	Number	32	42	19
	Value \$	192,085	2,741,598	293,600
Piers & Wharves	Number	40	52	7
	Value \$	111,408	303,950	49,000
Net Sheds	Number	103	121	32
	Value \$	236,590	1,721,144	604,800
Miscellaneous Equipment	Value \$	2,168	700	—
NEW CAPITAL INVESTMENT				
Engines	Value \$	84,766	248,850	21,480
Hulls	Value \$	166,050	195,000	41,150
Fishing Gear	Value \$	246,925	566,389	273,340
Wheelhouse	Value \$	16,791	209,756	33,322
Other Equipment	Value \$	1,100	528	—
TOTAL VALUE		\$2,759,025	\$19,476,715	\$3,243,401

IN ONTARIO COMMERCIAL FISHERY, 1979

Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
103	91	190	436	104	1,997
23	13	21	8	—	212
314,719	180,529	393,716	71,667	—	4,512,240
(347)	(199)	(434)	(79)	—	4,974
739,500	255,000	1,001,000	204,700	—	12,051,251
30	8	31	58	9	245
236,050	31,500	257,905	268,759	26,325	1,885,829
44	25	58	241	43	668
37,756	52,070	70,155	307,307	30,110	807,578
888,807	336,743	908,440	486,321	24,817	10,869,136
(968,800)	(367,050)	(990,200)	(530,090)	(27,050)	11,847,358
606,380	160,450	511,154	299,562	18,914	6,126,830
12	15	7	24	—	80
31,800	19,500	11,000	26,000	—	143,300
9	12	6	90	11	476
9,600	9,200	7,200	102,236	10,400	656,277
1	2	2	80	372	1,497
800	800	800	13,400	67,348	410,838
—	—	—	—	715	6,169
—	—	—	—	(782)	6,749
—	—	—	—	3,300	62,025
300	—	—	10	4,400	38,536
100	—	—	500	1,375	17,485
4	2	14	9	7	49
26	35	695	230	160	1,940
—	—	30	—	—	296
—	—	37,900	—	—	422,300
37	17	39	110	13	309
126,825	119,300	674,095	335,637	117,985	4,601,125
27	11	38	82	6	263
52,700	20,550	72,550	110,964	19,000	740,122
36	16	58	74	11	451
126,000	65,600	200,150	113,899	12,500	3,080,683
—	—	2,500	102,733	—	108,101
10,995	5,933	110,238	71,269	7,800	561,331
249	10,650	36,224	63,633	2,500	515,456
63,064	59,489	119,724	71,804	18,263	1,418,998
2,559	3,650	42,184	11,435	—	319,697
236	—	300	16,583	—	18,747
\$2,044,640	\$813,727	\$3,155,774	\$2,120,651	\$335,980	\$33,949,913

ONTARIO COMMERCIAL FISH HARVEST, 1979 — Weights in Kilograms

Fish Species	Ontario Lake	Erie Lake	Huron Lake	Bay Georgian
Alewives	—	—	—	—
Bowfin	977	12,116	—	180
Bullhead	162,489	16,999	225	1,726
Burbot (Ling)	54	520	—	1,400
Carp	3,761	14,594	17,314	3,736
Catfish	124	36,882	49,001	182
Chub (Deepwater Cisco)	—	—	67,121	122,252
Crappie	6,778	1,949	—	34
Eel	221,527	109	—	—
Lake Herring (Cisco)	13,387	2	2,910	20,600
Lake Trout	133	182	16,022	1,339
Lake Whitefish	1,288	765	374,792	74,481
Goldeye	—	—	—	—
Freshwater Drum	32	122,194	39,456	—
Northern Pike	18,744	8,209	207	4,147
Pacific Salmon	748	9,626	3,068	123
Rock Bass	10,546	21,435	44	2,358
Round Whitefish	89	—	5,459	19,179
Sauger	—	29	—	153
Shad	18	135	3,837	—
Smelt	26,225	10,830,777	178	637
Splake	—	—	8,138	914
Sturgeon	12	252	1,571	378
Sucker (Mullet)	8,294	13,714	30,186	12,773
Sunfish	70,087	26,379	—	—
White Bass	1,690	755,769	4,187	—
White Perch	46,161	—	—	—
Yellow Perch	253,432	5,422,825	48,703	44,596
Yellow Pickerel	23,729	537,831	94,640	16,818
Animal Food	7,273	639,700	91,431	3,118
Total Landings	877,598	18,472,993	858,490	331,124
Total Landed Value	\$1,477,733	\$17,591,703	\$1,729,870	\$640,989

ONTARIO COMMERCIAL FISH HARVEST, 1979 — Weights in Kilograms

North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings	Total Value
—	—	—	—	—	\$ —
576	—	—	117	13,966	1,922
1,903	—	4,873	48,018	236,233	198,955
1,774	3,053	121,623	324	128,748	6,443
1,988	214	—	137,910	179,517	77,874
39	—	—	9,920	96,148	104,941
216	270,628	37,676	—	497,893	911,893
—	—	23,979	7,696	40,436	72,190
—	—	—	4,276	225,912	684,062
2,938	887,414	62,653	—	989,904	709,515
2,623	111,208	33,621	—	165,128	303,253
62,550	158,581	616,332	—	1,288,789	2,352,530
—	—	64	—	64	15
—	—	616	2,059	164,357	17,682
9,495	1,589	265,526	3,600	311,517	309,240
1,193	6,588	—	62	21,408	34,769
1,536	—	19,310	3,254	58,483	77,721
3,097	17,707	5	—	45,536	29,160
9	—	15,495	—	15,686	18,527
—	—	—	27	4,017	368
8	34,136	—	—	10,891,961	2,035,334
11	—	—	—	9,063	21,179
1,889	871	5,747	3,834	14,554	63,422
35,892	74,532	446,301	8,737	630,429	96,429
—	—	—	30,810	127,276	84,424
35	—	994	117	762,792	762,813
—	—	—	2,974	49,135	33,675
28,899	47,304	9,242	18,438	5,873,439	14,012,262
19,565	178	353,002	—	1,045,763	2,834,002
33,786	6,544	200,384	25,048	1,007,284	18,998
210,022	1,620,547	2,217,443	307,221	24,895,416	—
\$280,275	\$1,722,554	\$2,227,660	\$202,814	—	\$25,873,598

ONTARIO COMMERCIAL FISH HARVEST, 1979 — Weights in Pounds

Fish Species	Lake Ontario	Lake Erie	Lake Huron	Georgian Bay
Alewives	—	—	—	—
Bowfin	2,170	26,924	—	400
Bullhead	361,087	37,777	500	3,835
Burbot (Ling)	121	1,156	—	3,110
Carp	8,358	32,430	38,476	8,303
Catfish	276	81,961	108,890	404
Chub (Deepwater Cisco)	—	—	149,157	271,670
Crappie	15,063	4,332	—	75
Eel	492,282	242	—	—
Lake Herring (Cisco)	29,749	4	6,467	45,777
Lake Trout	296	405	35,604	2,976
Lake Whitefish	2,863	1,699	832,871	165,513
Goldeye	—	—	—	—
Freshwater Drum	70	271,542	87,681	—
Northern Pike	41,653	18,243	459	9,215
Pacific Salmon	1,662	21,391	6,817	273
Rock Bass	23,436	47,633	98	5,239
Round Whitefish	197	—	12,132	42,621
Sauger	—	65	—	340
Shad	39	300	8,527	—
Smelt	58,279	24,068,393	396	1,416
Splake	—	—	18,084	2,030
Sturgeon	27	560	3,489	841
Sucker (Mullet)	18,432	30,475	67,079	28,384
Sunfish	155,748	58,619	—	—
White Bass	3,756	1,679,487	9,305	1
White Perch	102,580	—	—	—
Yellow Perch	563,182	12,050,722	108,229	99,103
Yellow Pickerel	52,732	1,195,179	210,310	37,373
Animal Food	16,162	1,421,555	203,180	6,928
Total Landings	1,950,220	41,051,094	1,907,751	735,827
Total Value	\$1,477,733	\$17,591,703	\$1,729,870	\$640,989

ONTARIO COMMERCIAL FISH HARVEST, 1979 — Weights in Pounds

North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings	Total Value
—	—	—	—	—	\$ —
1,280	—	—	259	31,033	1,922
4,228	—	10,828	106,708	524,963	198,955
3,943	6,785	270,274	720	286,109	6,443
4,417	476	—	306,466	398,926	77,874
87	—	—	22,045	213,663	104,941
480	601,395	83,724	—	1,106,426	911,893
—	—	53,287	17,102	89,859	72,190
—	—	—	9,502	502,026	684,062
6,528	1,972,030	139,229	—	2,199,784	709,515
5,828	247,127	74,714	—	366,950	303,253
138,999	352,402	1,369,627	—	2,863,974	2,352,530
—	—	143	—	143	15
—	—	1,368	4,574	365,235	17,682
21,099	3,530	590,057	7,999	692,255	309,240
2,652	14,639	—	137	47,571	34,769
3,414	—	42,912	7,232	129,964	77,721
6,883	39,348	12	—	101,193	29,160
20	—	34,434	—	34,859	18,527
—	—	—	60	8,926	368
18	75,857	—	—	24,204,359	2,035,334
24	—	—	—	20,138	21,179
4,197	1,936	12,771	8,519	32,340	63,422
79,761	165,625	991,780	19,415	1,400,951	96,429
—	—	—	69,235	283,602	84,424
77	2	2,208	261	1,695,097	762,813
—	—	—	6,608	109,188	33,675
64,220	105,119	20,538	40,973	13,052,086	14,012,262
43,477	396	784,449	—	2,323,916	2,834,002
75,079	14,542	445,297	55,662	2,238,405	18,998
466,711	3,601,209	4,927,652	683,477	55,323,941	—
\$280,275	\$1,722,554	\$2,227,660	\$202,814	—	\$25,873,598

ONTARIO COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Species	1975	1976	1977	1978	1979	Value
						1979
Bowfin	26	18	18	16	14	\$ 2
Bullhead	270	263	281	222	236	199
Burbot (Ling)	172	132	208	173	129	6
Carp	286	291	216	113	180	78
Catfish	119	61	65	86	96	105
Chub	593	725	602	558	498	912
Pacific Salmon .....	.....	.....	2	3	21	35
Eel	157	157	189	232	226	684
Freshwater Drum	184	171	184	166	164	18
Goldeye .....	.....	.....	.....	.....	.....	.....
Lake Herring	1,031	652	863	929	990	710
Lake Trout	105	104	112	165	165	303
Lake Whitefish	1,102	1,148	1,445	1,692	1,289	2,353
Northern Pike	274	272	312	344	312	309
Rock Bass and Crappie	84	99	86	80	99	150
Round Whitefish	41	62	40	40	46	29
Sauger	21	13	9	13	16	19
Smelt	7,799	8,210	10,593	12,300	10,892	2,035
Splake .....	.....	.....	13	12	9	21
Sturgeon	12	16	17	13	15	63
Sucker	600	606	639	536	630	96
Sunfish	215	176	128	106	127	84
White Bass	1,161	509	454	756	763	763
White Perch	174	337	198	229	49	34
Yellow Perch	4,252	2,754	4,367	4,505	5,873	14,013
Yellow Pickerel	620	689	1,134	846	1,046	2,834
Animal Food	1,101	1,034	1,168	1,076	1,010	19
Total Landings	20,413	18,497	23,343	25,211	24,895	
Total Landed Value	\$11,052	\$12,513	\$14,555	\$17,161		\$25,874

ONTARIO COMMERCIAL FISH HARVEST — by Species in 000s lbs and \$000s

Species	1975	1976	1977	1978	1979	Value 1979
Bowfin	57	39	41	37	31	\$ 2
Bullhead	600	584	625	494	525	199
Burbot (Ling)	383	293	462	384	286	6
Carp	636	646	480	251	399	78
Catfish	265	136	144	192	214	105
Chub (Deepwater Cisco)	1,317	1,612	1,338	1,240	1,106	912
Pacific Salmon	133	78	5	6	48	35
Crappie .....	.....	.....	26	48	90	72
Eel	379	348	420	514	502	684
Freshwater Drum	408	380	408	369	365	18
Goldeye	2	.....	2	.....	.....	.....
Lake Herring (Cis.)	2,292	1,449	1,917	2,065	2,200	710
Lake Trout	233	230	249	367	367	303
Lake Whitefish	2,449	2,552	3,211	3,762	2,864	2,353
Northern Pike	608	604	693	764	692	309
Rock Bass	187	221	165	130	130	78
Round Whitefish	91	138	88	89	101	29
Smelt	17,333	18,245	23,450	27,332	24,204	2,035
Splake .....	.....	.....	29	27	20	21
Sturgeon	27	35	38	30	32	63
Sucker (Mullet)	1,333	1,347	1,420	1,191	1,401	96
Sunfish	478	391	284	235	284	84
White Bass	2,580	1,131	1,008	1,680	1,695	763
White Perch	387	748	439	508	109	34
Yellow Perch	9,449	6,119	9,705	10,012	13,053	14,013
Yellow Pickerel	1,377	1,531	2,520	1,880	2,324	2,834
Animal Food	2,313	2,220	2,595	2,386	2,247	19
Sauger	46	28	21	29	35	19
Total Landings	45,363	41,105	51,873	56,024	55,324	
Total Landed Value	\$11,052	\$12,513	\$14,555	\$17,161		\$25,874

ONTARIO COMMERCIAL FISH HARVEST — by Waters in 000s kg and \$000s

Year	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay	North Channel	Lake Superior	Northern Inland	Southern Inland	Total	Total \$
1975	1,250	13,747	.....	824	514	163	1,696	2,039	180	20,413	11,052
1976	1,311	11,570	.....	998	487	263	1,751	1,940	178	18,497	12,513
1977	1,107	16,134	.....	1,067	456	226	1,738	2,446	168	23,343	14,555
1978	1,112	18,072	.....	1,179	349	172	1,834	2,352	140	25,210	17,161
1979	878	18,473	.....	858	331	210	1,621	2,217	307	24,895	25,874

by Waters in 000s lbs and \$000s

1975	2,777	30,549	.....	1,830	1,142	362	3,769	4,532	402	45,363	11,052
1976	2,914	25,711	.....	2,217	1,082	585	3,891	4,310	395	41,105	12,513
1977	2,461	35,854	.....	2,371	1,013	502	3,863	5,436	373	51,873	14,555
1978	2,471	40,160	.....	2,620	775	385	4,075	5,226	312	56,024	17,161
1979	1,950	41,051	.....	1,908	736	467	3,601	4,928	683	55,324	25,874

LAKE ONTARIO COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Eel	Lake Herring	Smelt	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total \$
1975	170	186	167	12	47	135	171	270	92	1,250	782
1976	158	193	154	7	41	102	328	258	71	1,311	1,003
1977	183	107	186	5	23	77	191	263	72	1,107	761
1978	164	9	229	6	27	67	226	318	66	1,112	1,138
1979	163	4	222	13	26	70	46	253	81	878	1,478

by Species in 000s lbs and \$000s

1975	378	414	370	27	104	300	381	599	204	2,777	782
1976	351	429	342	15	91	226	729	574	157	2,914	1,003
1977	407	237	414	12	51	171	425	594	160	2,461	701
1978	365	9	508	12	60	150	501	707	155	2,471	1,138
1979	361	8	492	30	58	156	103	563	179	1,950	1,478

LAKE ERIE COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Smelt	White Bass	Yellow Perch	Yellow Pickerel	Other Species	Total \$
1975	125	29	149	7,614	1,153	3,696	56	924	13,747
1976	80	24	153	7,736	504	2,073	114	869	11,570
1977	69	42	180	10,347	444	3,830	238	985	16,134
1978	64	29	158	11,974	742	3,963	265	877	18,072
1979	54	15	122	10,831	756	5,423	538	734	18,473
by Species in 000s lbs and \$000s									
1975	278	64	331	16,921	2,563	8,213	125	2,054	30,549
1976	177	53	341	17,190	1,120	4,646	254	1,930	25,711
1977	153	93	400	22,999	986	8,510	529	2,189	35,854
1978	142	64	351	26,609	1,649	8,806	589	1,950	40,160
1979	120	32	272	24,068	1,679	12,051	1,195	1,634	41,051

LAKE HURON COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Carp	Chub	Lake Herring	Whitefish	Round Whitefish	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1975	20	43	3	295	7	25	169	93	171	824	1,019
1976	20	48	—	401	12	65	181	68	205	998	1,408
1977	9	39	—	560	5	41	104	123	186	1,067	1,655
1978	15	70	4	641	9	49	124	77	190	1,179	1,960
1979	17	67	3	375	5	30	49	95	217	858	1,730
by Species in 000s lbs and \$000s											
1975	42	95	6	655	15	56	376	206	379	1,830	1,019
1976	42	106	2	890	26	144	402	150	455	2,217	1,408
1977	19	86	1	1,244	12	91	231	274	413	2,371	1,655
1978	33	156	8	1,425	21	108	275	171	423	2,620	1,960
1979	38	149	6	833	12	67	108	210	485	1,908	1,730

GEORGIAN BAY COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1975	—	311	12	64	11	18	57	21	18	514	649
1976	8	279	9	39	15	14	66	38	21	487	807
1977	8	172	18	72	15	32	64	52	23	456	685
1978	6	151	16	71	13	19	35	23	15	349	520
1979	4	122	21	74	19	13	45	17	16	331	641

by Species in 000s lbs and \$000s

Year	Smelt	Lake Whitefish	Northern Pike	Round Whitefish	Sturgeon	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1975	...	47	7	5	3	39	18	11	34	163	138
1976	...	42	13	20	2	60	73	11	41	263	267
1977	...	85	11	4	2	29	27	9	60	226	211
1978	...	88	5	3	2	23	13	6	32	172	196
1979	...	63	9	3	2	36	29	20	48	210	280

by Species in 000s lbs and \$000s

NORTH CHANNEL COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Smelt	Lake Whitefish	Northern Pike	Round Whitefish	Sturgeon	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1975	...	104	16	10	6	87	39	24	76	362	138
1976	...	94	30	45	4	133	163	24	92	585	267
1977	...	189	24	8	4	65	59	19	139	502	211
1978	1	197	11	6	4	52	29	14	71	385	196
1979	...	139	21	7	4	80	64	43	109	467	280

by Species in 000s lbs and \$000s

LAKE SUPERIOR COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Chub	Lake Herring	Lake Trout	Lake Whitefish	Smelt	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1975	205	973	82	133	136	100	29	—	37	1,696	1,011
1976	366	594	76	117	427	75	64	—	31	1,751	1,247
1977	344	793	91	109	216	64	66	2	54	1,738	1,172
1978	294	854	128	151	294	42	41	—	30	1,834	1,307
1979	271	887	111	159	34	75	47	....	37	1,621	1,723
by Species in 000s lbs and \$000s											
1975	455	2,162	182	296	303	222	65	1	83	3,769	1,011
1976	813	1,320	170	261	948	166	143	1	69	3,891	1,247
1977	765	1,762	203	243	479	142	146	4	119	3,863	1,172
1978	652	1,897	285	334	654	92	90	1	70	4,075	1,308
1979	601	1,972	247	352	76	166	105	....	82	3,601	1,723

NORTHERN INLAND COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Burbot	Chub	Lake Herring	Lake Trout	Lake Whitefish	Northern Pike	Sucker (Mullet)	Yellow Pickerel	Other Species	Total	Total \$
1975	156	31	27	18	561	244	395	436	172	2,039	1,333
1976	117	32	31	19	547	230	374	457	132	1,940	1,667
1977	176	45	41	16	612	256	453	709	709	2,446	2,217
1978	164	43	46	20	737	298	385	467	192	2,352	2,053
1979	122	38	63	34	616	266	446	353	279	2,217	2,228
by Species in 000s lbs and \$000s											
1975	346	68	61	39	1,246	543	878	969	382	4,532	1,333
1976	259	72	68	42	1,216	512	832	1,016	293	4,310	1,667
1977	392	101	91	36	1,361	568	1,006	1,575	306	5,436	2,217
1978	364	95	103	45	1,638	663	856	1,038	424	5,226	2,053
1979	270	84	139	75	1,370	590	992	784	624	4,928	2,228

SOUTHERN INLAND COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Lake Whitefish	Rock Bass & Crappie	Sucker (Mullet)	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total \$
1975	64	46	7	6	28	3	10	16	181	110	110
1976	59	44	8	4	30	9	18	9	178	125	125
1977	58	47	5	6	18	6	11	16	168	117	117
1978	41	58	4	1	15	3	6	12	140	103	103
1979	58	138	11	9	31	3	18	39	307	203	203
by species in 000s lbs and \$000s											
1975	143	103	16	14	62	6	22	36	402	110	110
1976	130	98	15	9	66	19	39	19	395	125	125
1977	129	109	11	14	48	14	25	36	373	117	117
1978	92	130	9	2	34	6	13	26	312	103	103
1979	129	306	24	19	69	7	41	88	683	203	203

EMPLOYMENT AND INVESTMENT IN ONTARIO COMMERCIAL FISHERY

Year	Men	Boats 40' and Over	Boats Under 40'	Gill Nets m 000s	Pound Nets 000s	Trap Nets	Hoop Nets	Seine Nets m 00s	Freezers m yds 00s	Wharves and Ice Piers	Net Sheds	New Investment \$000s	Total Value \$000s		
1975	2,220	198	966	9,251	10,117	104	466	1,715	69	76	323	250	477	1,557	18,254
1976	2,171	207	895	9,927	10,856	71	460	1,523	75	82	327	257	461	1,807	21,651
1977	2,213	209	946	10,191	11,145	120	504	1,532	69	75	303	278	450	2,195	23,775
1978	2,231	206	1,017	11,145	12,189	141	473	2,459	73	80	329	262	447	2,446	27,056
1979	1,997	212	913	10,869	11,847	80	476	1,497	62	67	309	263	451	2,834	33,950

LANDS AND WATERS GROUP

Room W-6626, Main Office.

Telephone (416) 965-6045.

Executive Co-ordinator	H. A. Clarke	W-6626.....6045
Secretary	Ms. H. Cobden	W-6623.....1075
Administration	J. Botterill	W-6613.....2724

LAND MANAGEMENT BRANCH

Room W-6450, Main Office.

Telephone (416) 965-1316.

Branch Director	E. F. Anderson	W-6450.....1316
Secretary	Mrs. B. Bourne	W-6450.....1316
Resource Access Section	J. M. Small, Spvr.	W-5606.....5735
Public Lands Section	J. Morton, Spvr.	W-6449.....2741
Secretary	V. Laakso	W-6440.....2741
Public Lands Management	L. E. Fleguel	W-6448.....4507
	C. V. Turnpenny	W-6446.....4507
	T. A. Laldee	W-6447.....4507
Disposition	W. P. Small	W-6445.....2743
	G. J. Madill	W-6443.....2743
	J. D. Buchanan	W-6444.....2743
	J. D. Cameron	W-6441.....2743
	V. Mann	W-6441.....2743
	G. Chalmers	W-6440.....5603
Mining Lands Section	J. C. Smith, Spvr.	W-6451.....1380
Mining Administrator	F. W. Matthews	W-6452.....6918
Land Acquisition Section	V. A. Leonard, Spvr	W-6628....2738
Land Acquisition Officer	(vacant)	W-6628....2738
Property Management	L. Hall	W-6628....2738
Appraisals	(vacant)	W-6628....2738
Titles Section	W. L. Good, Spvr	W-6621....1319
Document Officer	C. D. Egerton	W-6502....1319
Acreage Tax Administrator	Mrs. D. R. Holland	W-6621....1319
Records Officer	R. E. Dixon	W-6501....1319
Manager, Land Records	J. G. Sherman	W-6501....1319

LANDS ACQUIRED BY CROWN — Areas in hectares and acres in years ending March 31

Year	Provincial Tax Forfeitures		Cancellation of Sales		Purchased or Otherwise Acquired		Total		Acreage Tax Forfeitures	
	ha	Ac	ha	Ac	ha	Ac	ha	Ac	ha	Ac
1976	268	662	0.4	1	2,325	5,744	2,593	6,407	10,931	27,012
1977	6	16	1,121	2,771	1,128	2,787	10,117	25,00		
1978	1	2	3	8	4,995	12,344	4,999	12,354	10,147	25,073
1979			0.4	1	2,075	5,128	2,076	5,129	22,663	56,000
1980	0.4	1							15,783	39,000

USE OF ACQUIRED LANDS — Areas in hectares and acres in years ending March 31

Year	Provincial Parks		Access Points		Wilderness Areas		Sport Fisheries		Wildlife Management		Timber Management		District Improvmts		Total	
	ha	Ac	ha	Ac	ha	Ac	ha	Ac	ha	Ac	ha	Ac	ha	Ac	ha	Ac
1975	4,192	10,359	4	10	20	50	0.8	2	985	2,435	81	200	2	6	5,286	13,062
1976	2,108	5,209	12	29	35	86	6	16	163	403	...	...	...	...	2,324	5,743
1977	637	1,573	141	348	...	...	81	200	248	613	1.6	4	...	...	1,108	2,738
1978	548	1,353	4	10	...	...	...	...	111	275	4,333	10,706	...	...	4,995	12,344
1979	1,994	4,927	...	...	...	...	...	...	...	...	3	7	79	194	2,075	5,128

PUBLIC LAND — Areas in hectares and acres in years ending March 31

Year	No.	Patents ha	Ac	No.	Leases ha	Ac	No.	Licences of Occupation ha	Ac
1976	275	1,831	4,524	439	507	1,253	70	1,624	4,014
1977	256	2,248	5,554	197	593	1,465	141	10,220	25,255
1978	189	1,070	2,643	311	291	719	165	2,909	7,188
1979	126	523	1,293	63	99	245	79	3,580	8,847
1980	578	1,216	3,005	201	198	488	135	3,407	8,419

MINING LANDS — Areas in hectares and acres in years ending March 31

Year	Patents			Renewals			Leases		
	No.	ha	Ac	No.	ha	Ac	No.	ha	Ac
1976	142	2,690	6,649	61	10,581	26,145
1977	221	3,130	7,735	141	19,537	48,278
1978	131	2,337	5,775	92	15,344	37,915
1979	137	2,049	5,062	53	3,923	9,695
1980	185	5,327	13,163	94	11,185	27,639

Year	Surface Rights			Licences of Occupation			Quit Claim Deeds and Regrants		
	No.	ha	Ac	No.	ha	Ac	No.	ha	Ac
1976	.....	.....	.....	3	43,419	107,290	21	459,079	1,134,408
1977	4	196	484	3	8,713	21,530	20	463,770	1,146,000
1978	1	37	92	5	803,827	1,986,300	119	3,349	8,275
1979	1	37	92	2	27,694	69,100	142	3,764	9,300
1980	2	90	222	1	16	39	297	7,538	18,626

PROSPECTING ACTIVITIES — in years ending March 31

Year	Mining Claims		In Good Standing	Assessment Work (Days)	Quarry Permits Issued	Miners Licences	
	Recorded	Cancelled				Issued	Renewed
1976	20,290	14,879	44,096	697,297	764	1,128	2,590
1977	21,046	21,108	49,099	672,386	789	1,170	2,418
1978	14,747	20,786	41,548	644,811	1,087	943	2,000
1979	13,041	16,444	37,669	752,155	1,178	991	1,723
1980	16,875	10,952	36,092	437,619	1,301	1,347	1,854

LANDS AND WATERS GROUP

SURVEYS AND MAPPING BRANCH

Room W-6602, Main Office. Telephone (416) 965-6225.

Branch Director, Surveyor General	Robert G. Code	W-6602 ... 6225
Surveying Services, General Manager	S. B. Panting	W-6604 ... 4538
Surveys Manager	M. Berman	W-6643 ... 2714
Crown Surveys and Examination ..	J. E. Hietala	W-6644 ... 2714
Survey Research, Descriptions ..	J. P. Campbell	W-6641 ... 2714
Control Survey Agreements Officer ..	D. E. Norris	W-6641 ... 2714
Survey Records Information	D. E. Jeanes	W-6645 ... 7058
Geographical Referencing Coordinator	J. Kerr	W-6601 ... 4538
Mathematical Adjustments, Head	Z. Gulamhusein	W-4041 ... 4538
Mapping Services General Manager	J. Haddon	W-2624 ... 4941
Cartographic Services Manager	F. W. Dawson	W-2622 ... 4743
Drafting Services Manager	W. J. Clark	W-6521 ... 7108
Nomenclature Services Manager	M. B. Smart	W-2542 ... 6515
Basic Mapping Manager	B. Jackson	W-2623 ... 1208
Ontario Centre for Remote Sensing	V. Zsilinszky	8411
880 Bay Street, Toronto, Ontario M5S 1Z8	S. Pala	8411
Associate Director	A. Boissonneau	8411
Research and Training Supervisor	R. Mussakowski	8411
Research Forester	E. Wedler	8411
Research Geologist	J. Narraway	8411
Research Engineer	W. Jenns	8411
Remote Sensing Research Assistant	G. Lawrence	8411
Applications Supervisor	A. Jano	8411
Thermography Specialist	T. Ellis	8411
Environmental Specialist	J. Watts	8411
Land Use Capability Specialists	D. Bates	8411
Technology Supervisor	(vacant)	8411
RS Airborne Program Specialist	B. Fitzpatrick	8411
Photo Research Lab Supervisor		



MAPPING SERVICES ONTARIO BASIC MAPPING

1:20 000 , 1:10 000 scales

Completed .

In progress .

To be mapped .

1:2 000 scale

38 Communities completed .

48 Communities in progress .

SURVEYING SERVICES

Area of original township surveys .

Township boundaries resurveyed / restored .

7910 kms completed .



LANDS AND WATERS GROUP

OFFICE OF INDIAN RESOURCE POLICY

Room W-6625, Main Office.

Telephone (416) 965-6045.

Branch Director

Secretary

Indian Resource Policy Adviser

Senior Indian Land Claims Researcher

Indian Land Claims Researcher

Indian Land Claims Researcher

E. G. Wilson W-6625.... 6045
C. A. Ritchie W-6623.... 6045
P. R. Wyatt W-6627.... 6045
D. T. McNab W-5644.... 1271
L. G. Ugarenko W-5643.... 1271
A. Ireland-Smith W-5642.... 1271

LANDS AND WATERS GROUP

LAND USE CO-ORDINATION BRANCH

Room W-3440, Main Office.

Telephone (416) 965-2899

Branch Director	R. A. Riley	W-3440 2899
Land Use Planning Section	M. S. Millar, Spvr	W-3440 2899
Plan Input and Review Specialist	J. C. Slot	W-3440 2899
Special Projects	E. M. Cressman, Spvr	W-3440 2899
Project Planner	J. R. M. Williams	W-3440 2899
Policy and Planning	D. J. Johnstone, Spvr	W-3440 5344
Program and Policy Officer	(vacant)	W-3440 2899

PLANS REVIEWED — in years ending March 31

Year	Specific Development Plans			Official Plans Amendments Zoning By-Laws
	Subdivision	Severance	Other	
1976	1,324	2,149	687	601
1977	983	3,839	1,053	818
1978	1,614	4,558	566	986
1979	1,109	5,320	929	1,166
1980	1,140	6,747	1,519	1,831

**PLAN INPUTS AND
SPECIAL LAND USE PROJECTS —** in years ending March 31

Year	Plan Inputs	Special Land Use Projects (ongoing)	Environmental Assessments
1976	186	27	.....
1977	165	23	.....
1978	181	37	.....
1979	170	35	.....
1980	172	88	109

LANDS AND WATERS GROUP

CONSERVATION AUTHORITIES AND WATER MANAGEMENT BRANCH

Section 6, 5th Floor, Main Office. Telephone (416) 965-6285.

Branch Director	R. J. Burgar	Sect 6 ... 6285
Asst Director, Policy & Planning	J. S. Anderson	Sect 6 ... 6285
Water & Related Land Mgmt	G. S. Sardesai, Spvr	Sect 6 ... 6275
Policy Analyst	K. Nitta	Sect 6 ... 6281
Water Basin Planning	S. A. Mathewson, Head	Sect 6 ... 6277 (vacant)
Land Mgmt & Program Evaluation ..	R. Dickie, Head	Sect 6 ... 1573
Conservation & Recreational Land Mgmt Program	R. F. McDougal, Head	Sect 6 ... 6285
Financial Services	T. M. Kurtz	Sect 6 ... 1271
Asst Director, Services	P. N. Gryniewski, Spvr	W-5605 6292 (vacant)
Streamflow Forecast Centre	L. Balogh	Sect 6 ... 6277
Hydrometeorological Unit	R. B. Chang, Spvr	Sect 6 ... 6295
Flood Emergency Co-ordinator ..	J. Ding, Head	Sect 6 ... 6220
Models & Consultative Services	D. Strelchuk, Head	Sect 6 ... 1271
Model Development	R. M. Odell, Head	Sect 6 ... 1271
Coastal Zone Mgmt	Miss A. Perrigo	W-5611 ... 4481
Consultative Services	Mrs. D. Green	Sect 6 ... 6270
Library	Mrs. S. E. Court	Sect 6 ... 1799
Administrative Support Services		
Youth Programs Co-ordinator		

**GRANTS TO CONSERVATION AUTHORITIES
UNDER THE CONSERVATION AUTHORITIES ACT — in years ending March 31**

Year	Adminis- tration	Water and Related Land Mgmt	Conservation and Recreation Land Mgmt	Lake Ontario Waterfront	Total
1978*	\$ 3,984,064	\$ 4,289,982	\$ 16,713,608	\$ 2,495,641	\$ 27,483,295
1979	4,357,441	22,439,889	3,973,686	1,559,792	32,330,808

HYDRAULIC STRUCTURES OPERATED — in years ending March 31

Year	Dams and Fishways	Docks	Navigation Aids	Total
1978	201	.....	17	218
1979	202	.....	17	209

HYDRAULICS STRUCTURES MAINTAINED — in years ending March 31

Year	Dams and Fishways	Docks	Navigation Aids	Total
1978	302	122	20	444
1979	303	124	20	447

*A revised Policy, Procedure and Information Manual, which became effective in January, 1977, combined several of the capital programs reported separately in previous years.

ONTARIO CONSERVATION AUTHORITIES
SUMMARY OF 1978 STATISTICAL REPORTS (Totals for 38 Authorities)

LAND HOLDINGS

Classification	Purchased 1978		Total in 1978	
	ha	Ac	ha	Ac
Water and Related Land Management				
Valley lands, reservoir lands	558	1,394	26,846	67,116
Agreement forest	107	268	39,676	99,190
Wetlands, sensitive lands	579	1,448	12,097	30,244
Forest (Non-agreement)	154	386	5,689	14,223
Other	32	80	1,034	2,584
Conservation and Recreation Land Mgmt				
Niagara Escarpment	23	57	3,736	9,339
All other conservation lands	800	2,000	19,470	48,667
Total	2,253	5,633	108,548	271,373

WATER AND RELATED LAND MANAGEMENTS

Water Control Structures*	Completed 1978		Total in 1978	
	m	ft	m	ft
Channel Improvements	13,837	45,399	168,540	552,979
Watercourse diking	5,400	17,719	74,601	240,066
Lakeshore diking	15,800	51,840	47,700	156,504
Streambank erosion control	19,212	63,034	40,627	133,297
(Other than under Conservation Services)				
Dams owned or operated by Authorities: 192.				
Agricultural Land*				
Total rented or managed by Authorities			6,363	15,907
Conservation Services				
Properties Involved in Projects				
Conservation plans			17	
Streambank, gully erosion, grassed waterways			39	
Reforestation			570	
Other (including technical assistance)			234	

Flood Plain Regulations

Authorities with approved Regulations	24
Municipalities covered by Regulations	215
Floodline and fill line mapping completed in 1978*	
Area covered by floodline mapping	1,038,987 ha (2,567,336 ac)
Area covered by fill line mapping	1,628,956 ha (4,025,150 ac)

ENFORCEMENT OF REGULATIONS (Section 27)

Regulations Violations

Action Taken

Warning notices issued	233
Violations issued	166
Court proceedings	57

*Inconsistent or incomplete data.

Permits	
Requested	1,473
Granted	1,272
Refused	70
Appeals to Minister	16
Authority decisions upheld	13

Plan Review

MUNICIPAL PLANS

Reviewed	15,937
Recommended for approval	
No conditions	9,921*
With conditions	3,774*
Not recommended for approval	654*
Authority recommendations accepted (re: conditions or non-approval)	3,729*

AUTHORITIES COMMENTING DIRECTLY

to a decision-making agency	36
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FLOOD CONTINGENCY PLAN

Authorities with a plan	35
Percentage of member municipalities having no emergency by-laws to implement plans	56*

Water Quality

Water-Quality Monitoring Program

Authorities with program in co-operation with MOE	22
Total number in stations	320

* Inconsistent or incomplete data.

CONSERVATION AND RECREATION PROGRAMS

Recreational Areas	No.	ha	Ac
Land area actively managed	244	8,390	20,711
Plans	No.	ha	Ac
Areas with approval Master Plans	61	6,853	16,921
Areas without approved plans	269	4,848	11,971
Facilities and Use			No.
DAY USE			
User days	3,808,476*		
Picnic tables (not in campsites)	17,295*		
OVERNIGHT USE			
Camper days	915,038*		
Serviced campsites	2,407*		
Unserviced campsites	5,114*		
TRAILS			
	km	Summer mi	Winter mi
Pedestrian	896	556	687
Motorized vehicles	80	50	405
Equestrian	123	76	....
Conservation Services	Authorities No.	Properties No.	
Habitat improvement	6	67	
Other	8	210	

* Inconsistent or incomplete data.

FINANCIAL SUMMARY, 1978

Funds Available

Surplus from previous year	\$ 3,518,686
Ontario Government Ministries:	
Natural Resources*	34,862,951
Culture and Recreation	204,772
Housing	149,781
Agriculture and Food	391,149
Environment	157,140
Northern Affairs	1,764,000
Other	1,437,036
Municipal Levy	25,712,847
Board of Education	441,756
Federal Government	267,657
Donations, Trusts, Foundations	715,179
Revenue	5,025,030
Other	1,602,114
Deficit at year end	317,643
TOTAL	\$76,567,741

Funding Allocations

Deficit from previous year	\$ 69,405
Water and Related Land Management	
Land Acquisition	\$ 6,549,612
Development & other	25,823,085
Sub-total	<u>32,372,697</u>
	32,372,697
Conservation and Recreation Land Management	
Land Acquisition	\$ 1,532,184
Development & other	5,900,560
Sub-total	<u>7,432,744</u>
	7,432,744
Administration	7,394,317
Maintenance	8,912,036
Historic Sites	549,353
Other	16,476,142
Surplus at year end	3,361,057
TOTAL	\$76,567,741

* Including Experience '78.

AVIATION AND FIRE MANAGEMENT CENTRE

Box 310, Sault Ste. Marie, Ontario P6A 5L8

Telephone (705) 942-1800.

Telex 067-77166, 067-77134

Director	W. L. Sleeman	(705) 942-1800
Finance and Administration Supervisor	W. A. Sinclair	1800
Purchasing Officer	H. J. McMillan	1800
Fire Management Section	W. H. Forman, Spvr	1800
Provincial Fire Operations	J. G. Minor	1800
Project Management	R. J. Drysdale, Spvr	1800
Fire Management Education Co-ordinator	R. B. Little	1800
Chief Pilot	W. K. Warner	1800
Maintenance Superintendent	G. Willoughby	1800
Assistant Supt, Maintenance	S. J. Denley	1800
Airframe Section	P. F. Holder	1800
Engine Section	D. J. Moffat	1800
Quality Control Inspector	J. Scotland	1800
Communications Supervisor	W. C. Clarke	(416) 678-1172
Flight Ops Officer, Malton Airbase		

FOREST FIRE RECORD — Areas in hectares (acres in light face)

Year	Damage	Private Property Damage	Crown	Area Burned Over		Number of Fires	Area per Fire
				Private	Total		
1917	\$.....	\$.....	155,466	1,110	140
					384,164		346
1918	12,210	965	12
					30,172		31
1919	373,186	1,780	210
					922,161		518
1920	145,222	1,287	113
					358,851		279
1921	303,326	1,269	239
					749,534		591
1922	140,099	1,021	151
					346,193		339
1923	857,995	1,343	639
					2,120,148		1,579
1924	55,091	851	69
					146,017		171
1925	76,705	1,149	67
					189,543		165
1926	26,664	9,100	35,764	1,110	32	
		65,888	22,486	88,374		80	
1927	9,216	5,248	14,464	924	16	
		22,772	12,970	35,742		39	
1928	39,026	1,598	40,624	536	76	
		96,436	3,947	100,383		187	
1929	246,353	6,836	253,189	1,550	163	
		608,750	16,893	625,643		404	
1930	144,688	143,371	288,059	1,402	206	
		357,531	354,278	711,809		508	
1931	42,843	13,120	55,963	1,851	30	
		105,866	32,421	138,287		75	
1932	253,558	21,232	274,790	2,073	133	
		626,555	52,466	679,021		328	
1933	131,537	10,086	141,623	1,919	74	
		325,034	24,924	349,958		182	
1934	64,891	15,493	80,384	1,568	51	
		160,348	38,285	198,633		127	
1935	74,090	27,309	101,439	1,309	77	
		183,179	67,483	250,662		191	
1936	466,957	44,741	511,698	2,264	226	
		1,153,876	110,557	1,264,433		558	
1937	81,701	9,251	90,952	1,453	63	
		201,887	22,859	224,746		155	
1938	38,918	17,028	55,946	1,292	43	
		96,168	42,077	138,245		107	
1939	10,558	1,218	11,776	961	12	
		26,089	3,009	29,098		30	
1940	40,869	8,346	49,215	1,014	49	
		100,990	20,624	121,614		120	

FOREST FIRE RECORD — Areas in hectares (acres in light face)

Year	Damage	Private Property Damage	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
1941	\$	\$	109,991	159,751	269,742	1,265	213
			271,793	394,754	666,547		527
1942	.....	.....	31,448	14,571	46,019	1,224	38
			77,709	36,007	113,716		93
1943	.....	.....	13,543	7,831	21,374	624	34
			33,465	19,352	52,817		85
1944	.....	.....	29,635	38,713	68,348	1,137	60
			73,228	95,663	168,891		149
1945	.....	.....	7,283	12,348	19,631	966	20
			17,997	30,513	48,510		50
1946	.....	.....	18,072	12,995	31,877	1,739	18
			44,656	32,113	78,769		44
1947	.....	.....	15,416	18,591	34,007	1,393	24
			38,093	45,939	84,032		60
1948	.....	.....	345,917	65,806	411,723	2,036	202
			854,778	162,611	1,017,389		500
1949	.....	.....	16,427	7,880	24,307	1,834	13
			40,593	19,472	60,065		33
1950	55,148	103,682	5,343	9,541	14,884	985	15
			13,203	23,577	36,780		37
1951	389,447	56,389	39,118	1,854	40,972	904	45
			96,662	4,581	101,243		112
1952	29,504	31,347	2,940	2,087	5,027	1,095	4
			7,264	5,157	12,421		11
1953	393,874	81,778	18,016	5,782	23,508	1,520	16
			44,519	14,290	58,089		39
1954	406,241	15,650	14,615	7,518	22,133	881	25
			36,115	18,578	54,693		62
1955	3,591,680	184,940	150,118	10,309	160,427	2,252	71
			370,948	25,475	396,423		176
1956	3,068,152	22,319	89,768	1,777	91,545	1,017	90
			221,822	4,390	226,212		222
1957	463,059	113,751	9,814	9,065	18,879	1,671	11
			24,250	22,401	46,651		28
1958	311,503	97,036	10,337	4,496	14,833	1,558	10
			25,544	11,108	36,652		24
1959	22,041	20,757	1,044	1,093	2,137	1,029	2
			2,580	2,701	5,281		5
1960	438,094	56,442	11,813	888	12,701	956	13
			29,190	2,196	31,386		33
1961	31,989,802	152,639	477,894	1,549	479,433	1,305	367
			1,180,900	3,828	1,184,728		908
1962	74,748	99,165	3,069	2,517	5,586	1,521	4
			7,583	6,221	13,804		9
1963	706,888	39,932	16,467	6,251	22,718	1,885	12
			40,692	15,446	56,138		30

FOREST FIRE RECORD — Areas in hectares (acres in light face)

Year	Damage	Private Property Damage	Crown	Area Burned Over		Number of Fires	Area per Fire
				Private	Total		
1964	\$ 500,296	\$ 19,792	9,090	2,291	11,381	1,829	6
			22,463	5,661	28,124		15
1965	386,850	254,105	6,068	1,987	8,055	1,218	6
			14,995	4,909	19,904		16
1966	71,521	49,457	3,421	2,413	5,834	1,921	3
			8,453	5,962	14,415		8
1967	1,353,919	87,638	23,768	1,930	25,698	1,465	17
			58,733	4,769	63,502		43
1968	4,174	54,146	1,078	2,751	3,829	1,219	3
			2,665	6,796	9,461		8
1969	134,756	4,623	1,813	669	2,482	901	3
			4,481	1,653	6,134		7
1970	1,323,041	28,815	.....	.....	23,537	1,239	18
			.....	.....	58,160		45
1971	462,064	75,875	.....	.....	14,649	1,790	8
			.....	.....	36,199		20
1972	1,081,876	47,446	.....	.....	32,029	1,604	20
			.....	.....	79,145		49
1973	11,944	121,900	2,417	1,190	3,607	1,111	3
			5,973	2,940	8,913		8
1974	12,063,428	239,384	522,641	1,346	523,987	1,625	323
			1,291,473	3,327	1,294,800		797
1975	683,726	340,414	11,226	5,630	16,856	3,146	5
			27,740	13,911	41,651		13
1976	26,839,738	930,514	536,529	7,578	544,107	3,985	136
			1,325,791	18,726	1,344,517		337
1977	11,190,900	252,565	411,752	4,564	416,316	2,049	203
			1,017,460	11,279	1,028,739		502
1978	165,267	139,386	7,040	483	7,523	940	8
			17,397	1,194	18,591		20
1979	2,310,161	60,032	63,322	393	63,715	1,564	41
			156,472	972	157,444		101

1979 FOREST FIRES BY DISTRICTS

District	Number of Fires	Hectares Burned Over	ha per Fire	Acres Burned Over	Ac per Fire
Dryden	90	1,303.2	14.5	3,220.2	35.8
Fort Frances	72	30.8	.4	76.0	1.1
Ignace	62	1,012.1	16.3	2,500.9	40.3
Kenora	179	3,020.8	16.9	7,464.6	41.7
Red Lake	147	1,300.2	8.9	3,212.8	21.9
Sioux Lookout	155	42,441.8	273.8	104,876.1	676.6
Atikokan	35	18.6	.5	46.0	1.3
Geraldton	55	2,573.8	46.8	6,360.0	115.6
Nipigon	59	146.6	2.5	362.3	6.1
Terrace Bay	32	99.5	3.1	245.9	7.7
Thunder Bay	109	10,769.9	98.8	26,613.1	244.2
White River	5	3.0	.6	7.3	1.5
Chapleau	12	4.6	.4	11.4	.9
Cochrane	6	5.5	.9	13.7	2.3
Gogama	11	19.1	1.7	47.3	4.3
Hearst	14	15.7	1.1	38.7	2.8
Kapuskasing	7	16.4	2.3	40.5	5.8
Kirkland Lake	17	46.3	2.7	114.5	6.7
Moosonee	4	509.9	127.5	1,260.0	315.0
Timmins	7	4.1	.6	10.1	1.4
Blind River	9	12.3	1.4	30.3	3.4
Espanola	6	2.1	.4	5.3	.9
North Bay	18	7.9	.4	19.4	1.1
Sault Ste. Marie	18	2.4	.1	6.0	.3
Sudbury	126	57.3	.4	141.6	1.1
Temagami	7	1.5	.2	3.7	.5
Wawa	28	12.5	.4	31.0	1.1
Algonquin Park	39	7.1	.2	17.5	.4
Bancroft	7	7.0	1.0	17.3	2.5
Bracebridge	23	5.3	.2	13.2	.6
Minden	10	4.3	.4	10.6	1.1
Parry Sound	33	12.1	.4	29.8	.9
Pembroke	69	70.9	1.0	175.2	2.5
Lanark	12	7.5	.6	18.6	1.6
Tweed	66	160.7	2.4	397.2	6.0
Huronia	5	.6	.1	1.6	.3
Lindsay	8	1.5	.2	3.7	.5
Owen Sound	2	.1	.0	.2	.1
Total	1,564	63,715.2	40.8	157,443.6	100.7

1979 FOREST FIRES BY MONTHS

Month	Number of Fires	Hectares Burned Over	ha per Fire	Acres Burned Over	Ac per Fire
March	1	.6	.6	1.5	1.5
April	76	190.2	2.5	469.9	6.2
May	190	266.3	1.4	658.0	3.5
June	307	45,669.3	148.8	112,851.4	367.6
July	695	17,424.5	25.1	43,056.8	62.0
August	169	102.4	.6	253.1	1.5
September	118	56.7	.5	140.1	1.2
October	8	5.2	.6	12.8	1.6
Total	1,564	63,715.2	40.8	157,443.6	100.7

DETECTION OF FOREST FIRES

Agencies of Detection	1975	1976	1977	1978	1979
Towers	6	5	2	0	0
Ministry Aircraft	1,003	1,294	425	136	420
Total Organized Dtn	1,009	1,299	427	136	420
Public	1,876	1,948	1,434	750	875
Other Aircraft	261	738	188	54	269
Total Random Dtn	2,137	2,686	1,622	804	1,144
Total Fires	3,146	3,985	2,049	940	1,564
% age, Organized Dtn	32	33	21	14	27

SIZES OF FOREST FIRES

Area Burned Over	1975	1976	1977	1978	1979
Up to 1/4	Acres	1,426	1,957	811	470
Over 1/4 to 10	Acres	1,444	1,625	1,006	390
Over 10 to 100	Acres	222	224	157	57
Over 100 to 500	Acres	39	78	29	18
Over 500	Acres	15	101	46	5
Total Fires		3,146	3,985	2,049	940
					1,564

PROSECUTIONS

Actions re Forest Fires	1975	1976	1977	1978	1979
Prosecutions	67	103	112	27	24
Convictions	57	81	103	27	14

CAUSES OF FOREST FIRES — I

GENERAL CAUSES	1975	1976	1977	1978	1979
Recreation	966	816	530	359	407
Resident	281	251	280	91	90
Incendiary	43	55	55	35	24
Railways	288	359	257	147	169
Industry (Forest)	38	33	18	19	21
Industry (Other)	54	32	32	21	28
Miscellaneous (Known)	353	281	310	87	101
Unknown	80	72	40	16	28
Lightning	1,043	2,086	527	165	696
Total Fires	3,146	3,985	2,049	940	1,564

CAUSES OF FOREST FIRES — II

SOURCE OF IGNITION	1975	1976	1977	1978	1979
Smoking Materials	532	410	380	171	212
Camp Fires	484	403	222	186	186
Matches	234	240	195	80	65
Fireworks	3	1	2	1	1
Explosives	3	1	2	—	1
Fusee	10	10	8	2	12
Prescribed Burning	1	1	—	2	3
Dump Ashes, Coals	13	9	5	5	7
Burning Grass	100	61	50	17	23
Burning Brush	49	59	59	39	22
Burning Rubbish	61	44	40	15	13
Burning Garbage Dump	48	68	40	8	18
Burning Bulldozed Pile	3	9	4	—	2
Burning Sawdust Pile	6	2	3	—	2
Burning Ties	8	19	12	11	10
Burning Right of Way	11	5	18	3	5
Locomotive, Diesel	66	56	38	39	37
Locomotive, Steam	1	—	—	—	—
Brake Shoe	162	192	141	66	64
Hot Box	6	8	3	—	2
Power Saw	5	11	5	1	1
Mechanical Equipment	35	37	43	30	18
Power Line (Short)	29	23	65	15	15
Sparks from Chimney	6	4	4	—	3
Sparks from Burner	1	—	1	1	3
Structural Fires	22	16	21	11	9
Miscellaneous (Known)	50	59	49	19	22
Unknown	154	152	112	54	113
Lightning	1,043	2,085	527	164	695
Total Fires	3,146	3,985	2,049	940	1,564

CAUSES OF FOREST FIRES — III

RESPONSIBLE GROUPS	1975	1976	1977	1978	1979
RECREATION					
Fishermen	271	254	141	110	138
Hunters	75	73	9	69	13
Canoeists	68	45	29	17	27
Campers	171	114	77	55	40
Picnickers	18	21	15	7	11
Berry Pickers	172	147	62	48	98
TRAVELLERS					
Car Passengers	159	87	126	38	39
Hikers	66	51	66	17	22
Train Passengers	4	5	—	—	2
Guided Parties	2	—	1	1	—
RESIDENTS					
Farmers	37	30	31	14	11
Rural Residents	156	136	137	47	47
Urban Residents	14	13	14	4	5
Private Cottagers	58	48	70	27	18
Resort Owners	6	3	3	1	1
Indians (on Reserves)	14	47	21	5	15
VOCATION					
Trappers .....	.....	1	1	2	—
Prospectors	3	1	1	—	2
Timber Cruisers .....	.....	1	1	—	—
Survey Parties	1	2	—	—	2
Military .....	.....	1	2	1	—
EMPLOYEE OF—					
Woods Industry	30	26	19	16	21
Mining	3	—	5	1	1
Pipeline .....	.....	—	—	—	—
Hydro	11	11	6	4	5
Telephone .....	.....	—	1	1	—
Highway or Road	5	6	2	—	3
R.R. Section Crew	15	34	37	15	8
R.R. Train Crew	241	273	31	21	9
R.R. Work Crew	11	31	185	111	147
Other Industry	25	9	12	9	6
Natural Resources	10	13	10	5	7
Other Prov Government .....	.....	1	1	1	—
Federal Government .....	.....	—	—	1	1
Municipality	4	2	7	—	8
MISCELLANEOUS					
Children	187	172	172	48	49
Youth Camps	5	—	3	—	—
Miscellaneous (Known)	71	64	94	28	26
Unknown	190	177	130	51	87
Total Man-Caused Fires	2,103	1,899	1,522	775	869
Percentage of All Fires	67	48	74	82	56

AIR SERVICE SUMMARY — I — Hours Flown in years ending March 31

Year	Fire Ranging	Timber	Fish and Wildlife	Surveys	Lands	Parks
1976	5,204	1,354	3,901	195	709	884
1977	6,611	994	3,418	181	628	571
1978	3,149	1,127	3,775	287	1,088	538
1979	3,340	1,290	4,731	182	735	662
1980	2,000	1,650	2,500	345	1,000	600
1924-80 Total	234,293	35,489	104,578	2,748	14.210	12,507

Year	Research	Inter- Ministry	Photo	Mercy Flights	Miscellaneous	Total
1976	77	1,689	490	66	2,404	16,972.7
1977	506	1,400	463	46	3,003	17,820.8
1978	482	3,123	479	15	1,953	16,015.0
1979	105	2,652	578	25	364	14,633.6
1980	400	1,550	550	30	4,525	15,150.9
1924-80 Total	9,103	28,666	5,625	1,804	164,310	613,334.0

AIR SERVICE SUMMARY — II — in years ending March 31

Year	Mercy Flights	Passenger Carried	Flight Crew	Loads Carried	
				Metric Tons	Tons & Pounds
1976	27	30,497	6,834	9,766.234	10,765 515
1977	22	29,756	7,327	19,926.786	21,976 1,732
1978	10	28,639	7,731	783.006	863 13
1979	3	27,937	7,552	806.745	888 1,643
1980	13	27,336	7,555	1,023.044	1,132 1,402
1924-80 Total	528	1,117,617	380,566	207,331.371	228,541 740

ADMINISTRATION DIVISION

Room W-6345, Main Office.

Telephone (416) 965-7106.

Assistant Deputy Minister	J. W. Keenan	W-6345 7106
Secretary	Miss Y. Watier	W-6345 7106
Finance, Planning & Evaluation Group		
Executive Co-ordinator	G. D. Spry	W-6347 6148
Human Resources Planning		
Director	H. B. Farrant	W-4343 0323
Affirmative Action		
Women's Co-ordinator	Mrs. E. Rhodes	W-5441 5663

PROGRAM MANAGEMENT EVALUATION

Executive Co-ordinator	D. P. Drysdale	W-5446 5537
Secretary	H. Warburton	W-5446 5537
Management Information Systems		
Director	V. F. Macdonald	W-5445 5537
Management Systems		
Specialist	G. Kettel	W-5447 5537

ADMINISTRATION DIVISION

INFORMATION SERVICES BRANCH

Room W-5340, Main Office. Telephone (416) 965-2756.

Branch Director	F. Moritsugu	W-5352 .. 3315
Information & Liaison Section	K. Robertson, Spvr ..	W-5353.... 2756
Editing & Publications Section	K. Robertson, Spvr	W-5353.... 2756
Audio Visual & Films Section		
Photography	W. G. Lanning, Mgr.	W-5343.... 2758
Special Projects	L. P. Bondy	W-5354.... 2756
Exhibits & Administration Section	Mrs. E. H. Brown, Spvr ..	W-5351....1281

ADMINISTRATION DIVISION

PERSONNEL SERVICES BRANCH

Room W-4520, Main Office.

Telephone (416) 965-3825.

Branch Director (Acting)	A Jackel	W-4527.....3828
Manpower Section	M. K. Szulc	W-4612.....2707
Manpower Training & Devel. Unit	R. Butcher	W-4606.....2707
	C. Peterson	W-4605.....2707
Staffing	Mrs. R. Kelly	W-4603.....2707
Unclassified Staff & Manpower Data	Miss N. Miller	W-4602.....2707
Junior Ranger & Youth Programs	E. Yhap	W-4613.....2707
	M. T. Campbell	W-1545.....1258
	M. Lucyk	W-1545.....1258
Compensation & Staff Relations Section	J. A. Temple	W-4506.....6091
Pay and Classification	E. Polonoski	W-4502.....6091
	Mrs. M. Goldhar	W-4504.....6091
	Mrs. M. Koszarny	W-4507.....6091
	D. Williams	W-4501.....6091
	Miss G. Wylie	W-4503.....6091
Staff Relations	R. McIlveen	W-4525.....3825
Personnel Records Section	Mrs. C. Mahon	W-4528.....9951
Accounting & Benefits	Miss N. Davidson	W-4522.....3961
Safety Program Development Section	J. Hastings	W-4523.....5771

STAFF SUMMARY

Staff at March 31	1976	1977	1978	1979	1980
Regular Staff	3,793	3,603	3,614	3,919	4,088
Probationary Staff	256	302	250	456	341
Unclassified Staff	2,309	2,103	2,051	1,698	1,938
Total Staff	6,358	6,008	5,915	6,073	6,367
Main Office Staff	1,258	1,172	906	930	917
Field Office Staff	2,766	2,733	2,958	3,445	3,512
New Employees	356	234	250	862	316
Deceased	15	18	9	8	11
Superannuated	74	84	95	97	89
Transferred	58	112	49	32	38
Resigned	134	131	91	146	199
Dismissed	0	1	1	0	3
Released .....	.....	2	1	4	1
Miscellaneous	0	9	0	0	0
Total Separations	281	355	246	287	341
Biologists	111	114	123	150	145
Economists	9	8	7	9	7
Engineers	35	31	12	9	9
Foresters	259	289	288	287	288
Geologists	56	56	66	57	53
Mining Engineers	31	35	0	0	0
Park Planners	26	24	42	29	24
Scientists, Research Scientists	59	49	55	48	47
Miscellaneous	43	73	54	50	48
Professional Staff	629	679	649	639	621
Air Engineers	38	37	37	42	40
Cartographers	25	20	32	19	17
Communication Technicians	33	34	24	21	26
Community Planners .....	.....	.....	31	50	57
Construction Superintendents	11	10	8	8	7
Draftsmen	70	50	41	41	39
Geologist Assistants	13	14	14	17	18
Inspectors, Mining Claims	6	6	6	6	3
Laboratory Technicians	28	22	20	20	18
Mechanics	52	54	55	56	58
Mining Recorders	30	6	5	6	4
Pilots	36	38	38	37	37
Resource Managers	21	22	24	23	21
Resource Technicians	1,521	1,507	1,512	1,663	1,580
Safety Instruction Officers	14	10	12	13	12
Scalers, licensed	872	1,333	1,165	1,164	1,176
Junior Rangers	1,618	1,606	1,918	1,968	1,800

ADMINISTRATION DIVISION

ADMINISTRATIVE SERVICES BRANCH

Room W-5528, Main Office

Telephone (416) 965-2711

Branch Director	J. A. Queen	W-5528	2711
Services Section	F. W. Love, Mgr.	W-5526	4600
Conferences, Hospitality	Mrs. V. K. Walker	W-5525	6166
Office Management	H. L. Bembridge, Spvr.	W-5301	5134
Vehicle Pool	Mrs. J. Mills	W-5301	9988
Public Service Centre	Miss M. I. Leuty, Spvr.	W-1640	6511
General Inquiry (MNR) (Whitney Block Info Booth)			2000
Supply Section	R. Armstrong, Mgr.	W-5529	3317
Supply Analyst		W-5530	3317
Purchasing	J. May, Spvr.	W-5531	1601
Central Supply Warehouse	R. M. Toms, Spvr.		1286
733 King St. West, Toronto			
Records & Forms Management Section	A. J. Lesser, Mgr.	W-5422	3822
Data Processing Unit	R. Khan, Spvr.	W-5420	0116
Remote Job Entry Terminal	Mrs. K. Baker	W-5426	3419
Facilities & Fleet Section	G. Laivenieks, Mgr.	W-5423	4645
Facilities	T. Pierro, Spvr.	W-5423	4645
Accommodation Services		W-5423	4645
Fleet & Equipment	L. Krol, Spvr.	W-5423	1255

VEHICLES AND EQUIPMENT IN SERVICE — in year ending March 31, 1980

Type	Fixed Complement	*Number in Operation
Subcompact Cars and Station Wagons	1	1
Compact Cars and Station Wagons	94	106
Full-size Cars and Station Wagons	160	167
Standard and Extended Pickups	600	747
Four-wheel-Drive Vehicles	228	254
Crew Cabs and Cargo Vans	91	101
Passenger Vans and Personnel Carriers	115	131
Buses	9	9
Cab and Chassis — 10,000 GVW	85	90
Cab and Chassis — over 10,000 GVW	163	174
Cab and Chassis — specialized bodies	32	32
TOTAL	1,677	1,812
Motorcycles	35	35
Trailers (boat and equipment)	930	930
Trailers (refrigerated)	26	26
Snowmobiles	558	583
Tractors	349	354

* Number includes replacements and vehicles to be disposed of.

ADMINISTRATION DIVISION

LEGAL SERVICES BRANCH*

Room W-6420, Main Office. Telephone (416) 965-2748.

Director	J. Shantora	W-6427 2748
Solicitors	B. G. Jones	W-6422 2748
	L. A. Low	W-6426 2748
	W. J. Obelnycki	W-6424 2748
	W. E. D. Peters	W-6425 2748
	D. G. Searle	W-6423 2748
	S. Spindler	W-6421 ... 2748
	T. N. Trow	W-6428 ... 2748

*Legal Services Branch was transferred to the Attorney General on April 1, 1973, and seconded to the Minister of Natural Resources on the same date.

LEGISLATION

The Acts administered by the Ministry are as follows.

LANDS AND WATER GROUP

THE BEDS OF NAVIGABLE WATERS ACT (sometimes referred to as the "Cochrane Act") is declaratory legislation relating to title in the beds of navigable waters. It followed the decision in the 1911 case of Keewatin Power versus The Town of Kenora. By the Act, the beds are deemed not to have passed to the grantee of bordering Crown land in the absence of an express grant.

THE ONTARIO GEOGRAPHIC NAMES BOARD ACT provides for the establishment of a Geographic Names Board for Ontario having the duty to gather information respecting the names of places and geographical features, make recommendations thereon, collaborate with the Canadian Permanent Committee on Geographic Names, and provide information to government departments, etc. The Minister may approve a recommended name and thereupon it shall be used by all government departments and agencies in the preparation of maps and other publications.

THE ONTARIO HARBOURS AGREEMENT ACT, 1962-3, confirms on behalf of Ontario the agreement between Ontario and Canada establishing the harbours which were public harbours at Confederation, providing that mines and minerals therein are administered by Ontario and confirming grants and quit claims listed therein. The federal harbours are Amherstburg, Belleville, Brockville, Chatham, Collingwood, Fort William, Gananoque, Goderich, Kincardine, Kingston, Kingsville, Leamington, Oshawa, Owen Sound, Penetanguishene, Port Arthur, Port Burwell, Port Hope, Port Stanley, Prescott, Rondeau Bay, Sarnia, Sault Ste. Marie, Southampton, Toronto, Whitby and Windsor.

THE PUBLIC LANDS ACT provides for: (1) A Public Agricultural Lands Committee to recommend on agricultural lands and their settlement, replacing the regulations on this subject; (2) The disposition of Crown land for a variety of purposes by sale, lease or licence, and by auction or tender; (3) The management of Crown land by the Ministry by zoning for land use, setting apart for public use, research, etc., and through agreements with municipalities on beaches and water lots; (4) The administration of roads on Crown lands including the designation of public forest roads and agreements with occupiers of private forest roads respecting the use by the public of private forest roads; (5) The administration and control of the construction and maintenance of dams; (6) The granting of water powers and privileges.

THE SURVEYORS ACT deals with the Association of Ontario Land Surveyors and the rules governing membership and conduct. The Minister or his appointee and the Surveyor-General are members of the Council of Management.

THE SURVEYS ACT defines the system of surveys and the rules for surveyors. The Minister orders surveys made on his volition or upon application to settle disputes or lost lines, etc.; after hearing evidence, he confirms the surveys, with or without amendment. His decision is subject to appeal to a judge of the Supreme Court.

THE NORTH GEORGIAN BAY RECREATIONAL RESERVE ACT, 1962-3, establishes the North Georgian Bay Recreational Reserve and provides for the planning and development thereof and the appointment of a committee to advise the Minister thereon.

THE MINING ACT with respect to: the administration of public lands for mining purposes; the issuing of licences and leases relating to exploration and drilling for, and the production of, minerals and oil and natural gas; the staking and recording of mining claims; and the rights of licensees and lessees under the Act. An acreage tax is levied under this Act. (See under Mineral Resources Group).

THE BEACH PROTECTION ACT prohibits the removal of sand from the bed, bank, beach, shore or waters of any lake, river or stream in Ontario except under the authority of a licence issued under the Act. Licensees may be required to pay a fixed sum per yard of sand removed from property of the Crown.

THE CANADA COMPANY'S LAND ACT, 1922, empowers the Crown to sell and convey to purchasers of lands from the Canada Company the mineral rights in the lands.

THE LAKES AND RIVERS IMPROVEMENT ACT deals with: the construction, repair and use of dams; timber driving; and timber slide companies and tolls. The Minister is charged with the responsibility of settling disputes between conflicting users under certain circumstances. An officer may be appointed to regulate the use of waters or works.

THE CONSERVATION AUTHORITIES ACT provides for the establishment of conservation authorities for the purpose of establishing and undertaking in the area over which they are given jurisdiction a program designed to further the conservation, restoration, development and management of natural resources other than gas, oil, coal and minerals.

FOREST RESOURCES GROUP

THE CROWN TIMBER ACT enables the granting of the following four types of licences to cut Crown timber: a licence based on a call for tenders, a licence to salvage timber, a licence for areas that do not exceed 160 acres, and a licence approved by Order in Council for large areas.

The Act also enables the Minister to enter into comprehensive forest management agreements with members of the forest industry to ensure that forests under the agreements are harvested and regenerated to produce successive crops of timber on a sustained yield basis.

Crown Management Units may be established under the Act and agreements entered into for the supply of Crown timber from such units. Under this arrangement, the party to the agreement does not have exclusive rights in a specific area until a licence is granted to him to fill his requirements for an operating season.

Crown dues and area charge are fixed by the regulations.

Other subjects dealt with are: forest management, operating and annual plans; examination of scalers and licensing of scalers; licensing of mills; penalties for wasteful practices, unauthorized cutting, removal of timber before scaling, and other violations; and protection of the Crown's interests through seizure of timber and a statutory lien for Crown charges.

THE FORESTRY ACT. Under this Act: (1) The Minister enters into agreements with landowners such as municipalities, conservation authorities and the National Capital Commission (Ottawa) to manage the forest lands; (2) Ministry tree nurseries are established and nursery stock is distributed; (3) Private forest reserves are set up on private lands with the consent of the owner; (4) The Minister, with the approval of the Lieutenant Governor in Council, may establish programs for the encouragement of forestry. At present, a managed forest tax reduction program has been established by the Minister.

THE SETTLERS' PULPWOOD PROTECTION ACT provides for the regulation of the sale and of the price of pulpwood cut from settlers' land.

THE SPRUCE PULPWOOD EXPORTATION ACT provides for the exportation under the authority of an Order-in-Council of unmanufactured spruce pulpwood from lands granted under special Acts which prohibit such export.

THE TREES ACT provides that, with the Minister's approval, municipalities may pass by-laws restricting and regulating the destruction of trees and appoint enforcement officers. Generally, by by-law, municipalities may acquire land for forestry purposes and enter into agreements with the Minister for the management of such lands and related matters.

THE WOODLANDS IMPROVEMENT ACT provides for the Minister to enter into agreements with owners of lands suitable for forestry purposes and situate in a private forest management area for the planting of nursery stock or stand improvement.

THE WOODMEN'S EMPLOYMENT ACT authorizes the appointment of inspectors and the making of regulations respecting conditions in lumber camps. It also provides that Crown timber licensees are responsible for the acts and omissions of their jobbers and subcontractors who carry out operations.

THE WOODMEN'S LIEN FOR WAGES ACT provides a lien and a procedure to enforce such lien for persons performing labour on timber.

THE ALGONQUIN FORESTRY AUTHORITY ACT, 1974, establishes a Crown corporation known as the Algonquin Forestry Authority to harvest Crown timber in Algonquin Provincial Park and public lands adjacent to the park, to sell the logs, and also to carry out such forestry, land management and other programs and projects as the Minister of Natural Resources authorizes.

THE FOREST TREE PEST CONTROL ACT provides for the control of outbreaks of forest tree insects and diseases on private lands.

MINERAL RESOURCES GROUP

THE MINING ACT with respect to the issuing and administration of exploratory licences and production leases for oil and natural gas on public lands in designated parts of Ontario; processing applications for exemptions from restrictions on foreign processing; refinery licences; and the regulation of mining operations conducted within Ontario except under Part IX. (Also see under Lands and Waters Group.)

THE PITS AND QUARRIES CONTROL ACT, 1971, provides for the regulation of pit and quarry operations in designated parts of Ontario. Operations in designated areas must be licensed under the Act and are subject to periodic review to assure compliance with the provisions of the Act, the regulations and site plan.

THE PETROLEUM RESOURCES ACT, 1971, sets forth licensing requirements for various aspects of oil and natural gas exploration, drilling and production and provides for the making of regulations respecting oil and gas conservation and the safe operation of drilling and production facilities.

THE MINING TAX ACT, 1972, imposes a profits tax on mines. For the purpose of levying such tax the mine is assessed on the output of the mine at the pit's mouth determined in accordance with the provisions of the Act.

THE INDUSTRIAL AND MINING LANDS COMPENSATION ACT provides for agreements between the owner or operator of a mine and the owner or lessee of any land for payment of compensation for any damage or injury resulting or likely to result to the land or to its use and enjoyment from the operation of the mine.

THE GAS AND OIL LEASES ACT sets out the procedure whereby a lessor under a gas or oil lease may, upon default by the lessee under the terms of the lease, obtain an order declaring the lease void.

OUTDOOR RECREATION GROUP

THE ENDANGERED SPECIES ACT, 1971, provides for the conservation, protection, restoration and propagation of species of flora and fauna of the Province of Ontario that are threatened with extinction.

THE GAME AND FISH ACT deals with the management of wildlife resources; game animals; game birds (upland); fur-bearing animals; frogs; sale and rearing of game fish; and offences and enforcement. Regulations made under the Act establish open seasons for hunting and trapping; bag limits; Crown game preserves; the licensing of hunters, trappers, guides, persons operating game bird hunting preserves, and persons selling game fish for stocking and human consumption; the regulating of

dogs used in hunting, aircraft transporting hunters, and conduct of hunters (hunter safety); and farmer-hunter relations. The Game and Fish Hearing Board was established under the Act on November 15, 1973.

THE FISH INSPECTION ACT is complementary to the Federal Act.

THE FISHERIES ACT (CANADA). Ontario Fishery Regulations are made under this Act. They relate to open seasons for angling and commercial fishing and the licences required. The form of licences and the fees are prescribed under The Game and Fish Act.

THE FISHERIES LOAN ACT provides for loans to persons carrying on the business of commercial fishing or any other business dependent in whole or in part on the taking of fish from waters in which such taking has been prohibited by reason of the contamination of fish resulting from pollution of the water. Provision is made for federal-provincial agreements respecting the sharing of such loans.

THE FRESHWATER FISH MARKETING ACT (ONTARIO) complements the Freshwater Fish Marketing Act (Canada). Through these Acts and the federal-provincial agreement, the Freshwater Fish Marketing Corporation established under the Federal Act is the sole purchaser of commercial fish, as defined in the Federal Act, taken in that part of Ontario designated in the regulations, i.e., that part of Ontario westerly of longitude 86° except the Territorial District of Rainy River but including that part of Lake of the Woods in the Territorial District of Rainy River. Sales to and purchases by persons for their own consumption or for consumption by persons or animals in the course of the purchaser's business are excepted.

THE WILD RICE HARVESTING ACT prohibits the harvesting of rice on Crown land except under the authority of a licence.

THE WOLF DAMAGE TO LIVESTOCK COMPENSATION ACT, 1972, provides for payment of compensation to the owners of livestock killed or injured by wolves.

THE MIGRATORY BIRDS CONVENTION ACT. Open seasons for migratory birds are set under this Act.

THE PROVINCIAL PARKS ACT provides for the establishment of provincial parks and their management and for certain employees having the authority of the O.P.P. in a provincial park. Advisory committees for one or more provincial parks may be appointed by the Minister with the approval of the Lieutenant-Governor in Council.

Parks may be classified as a natural environment park, a nature reserve park, a wilderness park, a recreational park, a waterways park, or an historical park. Any of these classes may be zoned with controlled use in zones.

Mining is prohibited in provincial parks except as provided in the regulations. The regulations on mining were revoked in 1956 but rights and interest existing at that time were preserved.

Hunting is prohibited in provincial parks except as provided in the regulations under The Game and Fish Act or where the prohibition is removed by designation of the Lieutenant-Governor in Council under The Provincial Parks Act. This does not apply to the Townships of Bruton and Clyde (added to Algonquin Provincial Park by a Special Act).

Concession leases are granted under the Act. The Province calls for tenders for buildings and facilities.

Vehicle admission charge is \$2.00 per day or \$20.00 for the season. Campsite charges are \$5.00 per day, or \$5.50 per day where comfort station facilities are available, and \$7.00 per day for campsites with electrical power. The charge for an extra car on a campsite is \$3.00 per day. On unorganized campsites in park interiors, the charge is \$3.00 per boat per day.

This Act does not apply to any park under the management of the Niagara Parks Commission, the St. Lawrence Parks Commission or the St. Clair Parkway Commission.

THE WILDERNESS AREAS ACT was passed on March 26, 1959, to preserve areas having some unique feature. Development or utilization of the natural resources in an area more than 260 ha (640 acres) in size is not affected by this Act.

THE PARKS ASSISTANCE ACT provides for the establishment of parks in municipi-

palities or in territory without municipal organization. The Minister may with the approval of the Lieutenant-Governor in Council make grants not exceeding 50% of the cost of acquiring land and developing such parks. The parks established under the Act are to be maintained and operated in a manner complementary to provincial parks.

AVIATION AND FIRE MANAGEMENT CENTRE

THE FOREST FIRES PREVENTION ACT applies to the seven fire regions set up by regulation. The fire season, from April 1st to October 31st, may be extended by regulation. Fire permits are required during the fire season to (a) start fires in a fire region except for fires set out for cooking or warmth or to (b) ignite fireworks in or within 300m (1,000 feet) of a forest or woodland. Work permits are required at any time of the year for carrying on any logging, mining, industrial operation or clearing in or within 300m (1,000 feet) of a forest or woodland. Areas may be established as restricted fire zones in which fires for cooking or warmth will be restricted to portable stoves and barbecues or as restricted travel zones in which a travel permit will be required except on public roads, cities, towns, villages, police villages, supervised camping grounds and water adjacent thereto. The Minister may declare emergency areas and may make orders for suppression and the safety and evacuation of persons. The Minister may enter into agreements with Canada, any province, any federal or provincial agency or municipality respecting the prevention and control of forest fires. The regulations establish fire precautions.

GENERAL

THE MINISTRY OF NATURAL RESOURCES ACT, 1972, effective as of April 1, 1972, created the new Ministry of Natural Resources by amalgamating the former Department of Lands and Forests and Department of Mines and Northern Affairs and repealed the provisions of a number of Acts on which the departments depended for administrative authority. Effective October 30, 1973 the Act provides for the appointment of a Mining and Lands Commissioner and advisory committees.

THE ST. CLAIR PARKWAY COMMISSION ACT, 1966, established the St. Clair Parkway Commission as a corporation without share capital for the purpose of developing, controlling, managing, operating and maintaining lands acquired by, vested in or placed under the control of the Commission in the Counties of Kent and Lambton and in the Cities of Chatham and Sarnia.

THE ST. LAWRENCE PARKS COMMISSION ACT continues the St. Lawrence Parks Commission as a corporation without share capital for the purpose of developing, controlling, managing, operating and maintaining lands vested in or placed under the control of the Commission in the Counties of Glengarry, Stormont, Dundas, Grenville, Frontenac, Lennox and Addington, and Leeds.

THE NIAGARA PARKS ACT continues the Niagara Parks Commission as a corporation for the purpose of managing, controlling and developing those parks or other lands vested in or placed under the control of the Commission.

THE LAKE OF THE WOODS CONTROL BOARD ACT, 1922, is complementary to a Federal Act of 1921. It deals with the regulation of the water levels of the Winnipeg River, the English River, Lac Seul and Lake St. Joseph. The Board was created following a report in 1917 by the International Joint Commission which was established under a treaty made in 1909 between United States and Great Britain. The membership of the Board consists of a Federal representative and one from Manitoba and two from Ontario. One Ontario member is appointed by the Ontario Hydro. The other is R. M. Odell, Head, Consultative Services, Conservation Authorities and Water Management Branch, Ministry of Natural Resources, with R. B. Chang as alternate member.

The Board has the duty to secure severally and at all times the most dependable flow and the most advantageous and beneficial use of the Winnipeg and English Rivers and, for that purpose, to regulate the overflow of:—

(a) Lake of the Woods, to levels recommended by the International Joint Commission as agreed by Canada and the United States;

(b) Lac Seul, to levels recommended by the Board and approved by the Lieutenant-Governors in Council of Ontario and Manitoba and to regulate the flow into Lac Seul through the Lake St. Joseph diversion.

(c) Winnipeg River, between its junction with the English River and Lake of the Woods, and the English River between its junction with the Winnipeg River and Lac Seul; and

(d) Other waters of the watershed of the Winnipeg River as are placed under its jurisdiction by the Governor-General in Council and the Lieutenant-Governors in Council of Ontario and Manitoba.

THE LAC SEUL CONSERVATION ACT, 1928, provides for the execution of an agreement between the Minister of Lands and Forests and the Government of Canada regarding the construction of a conservation dam at the outlet of Lac Seul.

THE OTTAWA RIVER WATER POWERS ACT, 1943, ratifies and confirms an agreement between the Province of Ontario, the Province of Quebec, the Hydro-Electric Power Commission of Ontario and the Quebec Streams Commission respecting the development of water power on the Ottawa River.

THE SEINE RIVER DIVERSION ACT, 1952, confirms the partial diversion of the Seine River and authorizes the completion and operation of the diversion by Steep Rock Iron Mines Limited.

THE NATIONAL RADIO OBSERVATORY ACT, 1962-3, provides for the transfer of administration and control of certain public lands in the Township of White, District of Nipissing, to Canada for the maintenance and operation of a national radio observatory.

THE GANANOQUE LANDS ACT, 1961-2, vests certain lands in the Town of Gananoque in the Crown and authorizes the sale of encroachments to adjoining owners for a fee of \$50.00 and the granting of the balance of the land.

THE ALGONQUIN PROVINCIAL PARK EXTENSION ACT, 1960-1, adds the public lands in the Geographic Townships of Bruton and Clyde in the Provincial County of Haliburton to the park, subject to hunting.

THE MINERAL EMBLEM ACT, 1975, adopts the amethyst as the mineral emblem of the Province of Ontario.

ADMINISTRATION DIVISION

FINANCE, PLANNING AND EVALUATION GROUP

Room W-6347, Main Office. Telephone (416) 965-6148.

Executive Co-ordinator	G. D. Spry	W-6347 ... 6148
Secretary	Mrs. C. Caddell	W-6346 ... 6147
Management Planning and Analysis Director	D. M. Wood	W-6341 ... 4143
Systems Analysis Systems Co-ordinator	C. K. Moulson	W-2545 ... 5674

FINANCIAL SERVICES BRANCH

Room W-4325, Main Office. Telephone (416) 965-2761.

Branch Director	A. C. Goddard	W-4324 ... 2761
Chief Accountant	A. R. Taylor	W-4326 ... 2761
Accounts Payable Section	J. T. Tunnicliff	W-4340 ... 2764
Licence Issuing Section	T. Headley	W-4342 ... 2814
IPPEB Section	E. V. Young (acting)	W-4421 ... 2766
Revenue Accounts and Security Deposits Section	F. J. Morrell	W-4443 ... 2770
Revenue Receiving Section	V. St. Onge	W-4303 ... 4451
Financial Reporting and Control	I. A. Nott, Manager	W-4323 ... 2761
Expenditure Control	R. Kerr	W-4321 ... 1895
Financial Reporting & Claims Sect	M. Toivonen	W-4321 ... 1895
Financial Methods Section	G. Jarzabek, Mgr.	W-4420 ... 1218

REVENUE AND EXPENDITURES — in years ending March 31

Year	Total General Revenue	Total Budgetary Expenditure
1976	\$ 128,404,521	\$ 207,981,416
1977	109,345,882	239,442,268
1978	99,733,072	242,207,223
1979	129,401,477	246,388,247
1980	202,825,624	279,799,068

LANDS REVENUE — in years ending March 31

Year	Water Power	Crown Land Sales	Crown Land Rentals	Park Rentals & Fees	Pits and Quarries Licences	Land Use Permits
1976	\$ 12,747,346	223,013	546,844	48,597	94,900	\$ 348,108
1977	12,988,363	966,881	618,509	47,604	89,675	398,755
1978	13,715,920	158,100	686,992	44,931	89,300	401,880
1979	16,132,257	762,394	741,831	41,672	109,175	440,550
1980	19,279,984	1,899,009	577,784	57,788	116,625	479,869

Year	Assignments & Extension Fees	Cons. Federal Authorities	Return of Grants	Recovery Prior Years Land Aquisition	Misc.	Total
1976	\$ 10,302	\$ 559,784	\$ 29,312	\$ 39,163	\$ 137,918	\$ 14,785,287
1977	15,345	325,308	55,900	159,515	34,978	15,700,833
1978	39,562	1,100,177	12,629	18,987	14,380	16,282,858
1979	29,906	575,491	127,846	5,402	40,437	19,006,961
1980	22,045	133,317	54,228	94,270	98,218	22,813,137

TIMBER REVENUE — in years ending March 31

Year	Stumpage Charges	Timber Area Charges	Nursery Tree Sales	Agreement Forest	Federal Agreement	Misc.	Total
1976	\$ 23,835,666	2,597,098	182,157	123,309	314,113	55,208	\$ 27,107,551
1977	25,923,527	1,883,792	174,538	206,150	406,922	93,673	28,688,602
1978	30,776,425	2,232,462	213,095	253,492	982,418	76,098	34,533,990
1979	37,193,516	1,832,965	242,380	494,525	795,530	96,966	40,655,882
1980	42,729,326	5,471,287	235,525	635,368	26,344	86,385	49,184,235

MINING REVENUE — in years ending March 31

Year	Licences and Permits	Mining Claims	Sale of Mining Lands	Rentals	Royalties	Taxes	Forfeitures	Laboratory Fees	Rec. of Prior Years Expenditure	Total
1976	\$ 88,024	347,669	1,517	750,291	836,305	\$ 63,081,453	4,350	119,866	180,242	\$ 65,409,717
1977	75,420	334,256	32,015	656,009	819,967	41,652,820	3,470	98,161	74,595	43,746,713
1978	81,295	280,417	17,870	802,480	1,065,821	22,919,376	4,210	70,698	1,074	25,243,241
1979	60,875	254,066	8,236	827,911	1,380,839	42,372,537	3,360	80,499	125,394	45,113,717
1980	103,787	362,937	6,860	948,112	1,539,814	99,674,524	3,330	125,936	31,891	102,797,191

PROVINCIAL PARKS REVENUE — in years ending March 31

Year	Campsite Permits	Concessions Rental	St. Lawrence Lic & Permits	Federal Agreement	St. Clair Parkway Commission	Misc.	Total
1976	\$ 726,356	\$ 3,997,858	\$ 299,644	\$ 1,521,710	\$ 44,359	\$	\$ 6,608,200
1977	671,464	3,835,840	317,043	1,398,060	241,060	.....	6,486,018
1978	729,408	3,753,880	350,837	1,432,275	421,208	.....	6,757,473
1979	913,499	5,238,214	371,071	1,791,382	288,258	.....	8,771,385
1980	971,351	5,325,333	450,018	1,896,935	1,337,144	115,000	10,196,631

FISH AND WILDLIFE REVENUE — in years ending March 31

Year	Non-Resident Angling	Other Fishing	Commercial Fishing	Non-Res Hunting	Resident Bear	Resident Deer	Resident Moose	Resident Groundhog	Res (Gun) Hunting
1976	\$ 5,599,835	\$ 94,704	\$ 89,679	\$ 2,004,314	\$ 8,023	\$ 827,601	\$ 1,170,402	\$ 75,331	\$ 994,772
1977	5,473,577	102,250	89,817	2,046,136	9,541	787,631	1,182,597	81,743	977,262
1978	5,603,400	93,838	95,125	1,766,613	9,466	863,246	1,056,029	75,678	997,357
1979	5,825,469	104,533	96,832	1,935,617	12,489	886,363	1,235,920	80,624	1,022,792
1980	5,750,812	111,185	104,928	2,260,030	13,539	1,129,511	1,436,576	74,068	1,502,536

Year	Dog	Trappers	Fur Dealers	Hunter Exam Fee	Prov Park Hunting	Misc Fees & Licences	Royalty Game	Outside Agencies	Agreements	Federal	Total
1976	\$ 16,238	45,705	\$ 2,990	\$ 113,247	\$ 34,295	\$ 79,201	\$ 284,203	\$ 19,778	\$ 75,360	\$ 11,535,678	
1977	16,141	51,910	3,565	98,301	36,843	64,752	432,988	26,239	266,200	11,747,493	
1978	15,681	52,969	5,965	105,339	59,800	95,806	666,789	18,636	321,114	11,902,851	
1979	17,252	62,177	7,750	101,613	67,312	97,424	562,619	1,070	309,919	12,427,775	
1980	37,179	66,730	8,170	88,797	64,408	153,246	931,496	266,117	13,999,328		

OTHER CASH RECEIPTS — in years ending March 31

Year	Sale of Maps Publications etc.	Fire Costs Recovered	House Rentals	Sale of Buildings	Sale of Van & Eqpt	Confiscated Articles	Frost Centre	Non-recurring Items and Misc.	Total
1976	\$ 1,530,779	\$ 295,449	\$ 394,240	\$ 25,757	\$ 146,579	\$ 32,742	\$ 244,010	\$ 288,532	\$ 2,958,088
1977	1,626,975	298,653	352,369	24,933	296,483	60,173	257,117	59,520	2,976,223
1978	1,817,587	835,720	457,659	16,177	875,868	84,033	292,358	633,257	5,012,659
1979	1,931,946	391,611	436,711	23,784	224,918	32,445	230,637	153,705	3,425,757
1980	2,253,723	67,284	452,803	26,840	420,736	51,918	245,126	316,672	3,835,102

ADMINISTRATION DIVISION
Finance, Planning and Evaluation Group

INTERNAL AUDIT SERVICES BRANCH

Room W-4663, Main Office.

Telephone (416) 965-4087

Branch Director	A.A. Ward	W-4637.....4087
Main Office Audit Manager	D. L. Lay	W-4636.....4088
Northeastern Audit Section 875 Queen Street East Sault Ste. Marie, P6A 2B3 Audit Manager (acting)	W. C. Johnstone	(705) 942-1418 (IC 842)
Northwestern Audit Section Box 5000 Thunder Bay, P7C 5G6 Audit Manager	N. D. Nurse	(807) 475-1211 (IC 844)
Southern Audit Section c/o District Office Maple, L0J 1E0 Audit Manager	D. A. Dooling	(416) 832-2761 Ext 281

ADMINISTRATION DIVISION
Finance, Planning and Evaluation Group

BUDGET AND PROGRAM ANALYSIS BRANCH

Room W-6345, Main Office. Telephone (416) 965-4218.

Branch Director	M. W. Cox	W-6310 .. 4218
Program Planning and Budget Section		
Manager	L. Bailey	W-6309 .. 4210
Budget Supervisor	J. Heywood	W-6309 .. 5539
Financial Analyst	J. Rawston	W-6309 .. 4210
Budget Accountant	P. Chen	W-6309 .. 9052
Program Analysis Section		
Manager	G. Doan	W-6540 .. 6713
Control Systems and Financial Analysis Section		
Manager	D. Powers	W-6312 .. 9052
Senior Financial Analyst	Mrs. F. DaSilva	W-6312 .. 9052

NORTHWESTERN REGION

D. R. Johnston	Regional Director	Box 5160, 808 Robertson St., Kenora,
R. M. Monzon	Deputy Reg Director	Ont P9N 3X9 Phone (807) 468-3111
D. R. Fortner	Deputy Reg Director	
G. N. McGeachy ..	Admin Coord	G. Brown Forester
K. J. Chambers	Biologist	G. G. Pyzer Lands Co-ord
R. V. Brady	Fire Mgt Officer	R. A. Balkwill Parks & Rec Co-ord
G. N. Warner	Safety Officer	S. O. Russell Eng Services Co-ord
R. C. Beard	Geologist	W. A. Buchan Mining Lands Admin.
D. A. Janes	Geologist	A. Hanson Mining Recorder
Sioux Lookout ..	737-1291	Sioux Lookout .. 737-2100
M. Durocher	Geologist	W. S. Mathews Mining Recorder
Red Lake	727-2252	Red Lake 727-2250

Region Service Centre, G. M. Fenelon, Box 850, Dryden Phone (807) 937-4489
Dryden Forest Station, T. R. Myland, Box 90, Wabigoon Phone (807) 938-6326

KENORA DISTRICT

Box 5080, 808 Robertson St., Kenora	
Ont P9N 3X9	Phone (807) 468-9841
D. B. McGregor	District Manager
R. G. McCue	Administration
D. Philippi	Field Services
G. K. Winterton	Fish & Wildlife
W. H. Mills	Forests
T. J. Lunny	Lands
R. W. Paterick	Parks

SIOUX LOOKOUT DISTRICT

Box 309, Sioux Lookout	
Ont P0V 2T0	Phone (807) 737-1140
J. F. Goodman	District Manager
W. L. Bertrand	Administration
H. D. Morrison	Field Services
A. A. Martin	Fish & Wildlife
J. M. McIntyre	Forests
F. E. Brown	Lands & Parks

RED LAKE DISTRICT

Box 323, Highway 105, Red Lake,	
Ont P0V 2M0	Phone (807) 727-2531
E. W. Everley	District Manager
G. C. Carlson	Administration
P. D. Drysdale	Fish, Wildlife, Parks
P. R. Gagnon	Forests
T. E. Campbell	Field Services
E. R. Keast	Lands

FORT FRANCES DISTRICT

922 Scott Street, Fort Frances	
Ont P9A 1J4	Phone (807) 274-5337
J. K. Cleaveley	District Manager
B. Y. Katerick	Administration
S. E. Cameron	Field Services
E. J. Swift	Fish & Wildlife & Parks
A. P. Matiece	Forests
C. E. Horne	Lands

DRYDEN DISTRICT

Box 3000, Ontario Govt Bldg, Dryden	
Ont P8N 3B3	Phone (807) 223-3341
H. P. Endress	District Manager
J. Hamilton	Administration
A. MacDonald	Field Services
R. W. Taylor	Forests
H. Gibbard	Fish & Wildlife
D. Lindstrom	Lands & Parks

IGNACE DISTRICT

Box 448, Ignace	
Ont P0T 1T0	Phone (807) 934-2233
T. E. Dodds	District Manager
W. A. Brunton	Administration
P. R. Croskery	Fish & Wildlife
(vacant)	Forests
J. D. Bond	Field Services,
P. J. Pincombe ...	Lands, Parks

NORTH CENTRAL REGION

R. A. Baxter	Regional Director	Box 5000, Ontario Government Building	
L. M. Affleck	Deputy Reg Director	435 James St. South, Thunder Bay 'F'	
W. Hendry	Deputy Reg Director	Ont P7C 5G6 . Phone (807) 475-1261	
J. D. Chadwick	Admin Coord	1221	
(Vacant)	Biologist	1231	
A. B. Johnson	Fire Mgt Officer	1241R. B. Adamson . Engineer	1301
J. F. Flowers	Forester	1251D. J. Murray .. Lands Coord	1321
(Vacant)	Parks-Rec Coord	1281K. G. Fenwick .. Geologist	1331

Dorion Trout Rearing Station, H. Manson	Phone (807) 857-2322
Regional Fire Centre, R. Kincaid	Phone (807) 475-1405
Thunder Bay Forest Station, A. Wynia	Phone (807) 577-6409

THUNDER BAY DISTRICT

Box 5000, Thunder Bay 'F'	
Ont P7C 5G6	Phone (807) 475-1501
D. E. McHale	District Manager
L. O. Keller	Administration
R. A. Lessard	Field Services
R. T. Thomson	Fish & Wildlife
R. G. Klein	Forests
T. J. Leveque	Parks & Rec
J. W. Suttie	Lands

GERALDTON DISTRICT

Box 640, Geraldton,	
Ont P0T 1M0	Phone (807) 854-1030
J. D. Walker	District Manager
L. S. Morrow	Administration
E. P. Herrington	Field Services
E. H. Stone	Fish & Wildlife
D. Jovic	Forests
A. Hoshino	Lands & Parks

ATIKOKAN DISTRICT

108 Saturn Avenue, Atikokan	
Ont P0T 1C0	Phone (807) 597-6971
A. M. Harjula	District Manager
B. A. Prince	Administration
F. Dustak	Engineering Services
B. H. Gibson	Fish & Wildlife
A. G. Dougall	Forests
D. H. Elder	Lands & Parks

NIPIGON DISTRICT

Box 970, Nipigon	
Ont P0T 2J0	Phone (807) 887-2120
G. O. Koistinen	District Manager
M. Wilson	Administration
W. R. Doyon	Field Services
L. Townes	Fish & Wildlife
G. Marek	Forests
G. T. Bean	Lands & Parks

TERRACE BAY DISTRICT

Box 280, Terrace Bay,	
Ont P0T 2W0	Phone (807) 825-3205
P. A. Strassburger	District Manager
G. K. Sidhu	Administration
B. J. Lapenskie	Field Services
J. A. Chappel	Fish & Wildlife
T. B. Scott	Lands & Parks
Manitouwadge Work Centre	
Box 309, Manitouwadge	
Ont P0T 2C0	Phone (807) 826-3225
L. Skinkle	Forests
C. J. Currie	Fire Control

NORTHERN REGION

G. P. Elliott	Regional Director	Box 3000, 140 Fourth Ave., Cochrane,
L. H. Lingenfelter ..	Deputy Reg. Director	Ont P0L 1C0 Phone (705) 272-4287
R. I. Thompson	Admin. Coord.	D. W. Schafer
J. Young	Biologist	Deputy Reg Director
H. I. Mattson	Parks & Rec Co-ord	60 Wilson Avenue, Timmins,
J. S. Dougan	Personnel Coord.	Ont. P4N 2S7 Phone (705) 267-1401
C. Roswalka	Safety Officer	W. E. Belisle
4 Govt Rd E, Kirkland Lake		Fire Management
Ont P2N 1A1	Phone (705) 567-5421	W. O. Mackasey .. Mineral Res. Coord.
H. V. Lovell	Res Geologist	F. J. Wilson
G. Koleszar	Mining Recorder	Lands Co-ord
Swastika Forest Station, L. J. Forcier		R. C. Barty
Hill Lake Trout Rearing Station, P. Graf		Eng Services Co-ord
		M. R. Innes
		Forester
		M. S. Paradis
		Engineer
		Phone (705) 642-3255
		Phone (705) 544-2834

COCHRANE DISTRICT

Box 730, 2 Third Ave, Cochrane	
Ont P0L 1C0 ..	Phone (705) 272-4365
G. A. Wright	District Manger
G. Nantel	Administration
A. C. Hutchinson ..	Field Services
W. Therriault	Outdoor Rec
J. Starr	Forests
F. Wright	Lands

CHAPLEAU DISTRICT

34 Birch Street, Chapleau	
Ont P0M 1K0 ...	Phone (705) 864-1710
R. G. Elliott	District Manager
O. E. Crawford	Administration
J. R. Russell	Field Services
J. R. Chevalier	Fish & Wildlife
T. Isherwood	Forests
J. P. Dick	Lands
G. W. Dingee	Parks & Rec

GOGAMA DISTRICT

Box 129, Gogama,	
Ont P0M 1W0 ..	Phone (705) 894-2000
C. Dionne	District Manager
J. Sollars	Administration
M. Sitts	Field Services
C. Jessop	Fish & Wildlife
C. Mason	Forests
D. Stewart	Lands & Parks

HEARST DISTRICT

631 Front St., Hearst	
Ont P0L 1N0	Phone (705) 362-4346
C. E. Emblin	District Manager
W. C. Trowsse	Administration
L. G. Woods	Field Services
S. St. Jules	Fish & Wildlife
D. Stillar	Forests
M. J. Girouard	362-4264 Lands & Parks

KAPUSKASING DISTRICT

6 Government Road, Kapuskasing,	
Ont P5N 2W4	Phone (705) 335-6191
R. G. Lightheart	District Manager
(vacant)	Administration
R. Carriere	Field Services
S. Toole	Fish & Wildlife
K. Cleary	Forests
D. Miller	Lands & Parks

KIRKLAND LAKE DISTRICT

Box 129, Swastika,	
Ont P0K 1T0	Phone (705) 642-3222
J. E. Hamilton	District Manager
G. E. Allick	Administration
W. G. Taylor	Field Services
J. F. Gardner	Fish & Wildlife
B. I. Thompson	Forests
J. A. Colquhoun	Lands
W. B. Hill	Parks

TIMMINS DISTRICT

896 Riverside Drive, Timmins,	
Ont P4N 3W2	Phone (705) 267-7951
A. F. Papineau	District Manager
V. A. Mathieu	Administration
D. E. Shewn	Field Services
W. A. Sinclair	Fish & Wildlife
D. F. Jefferson	Forests
C. R. Biggar	Lands & Parks

MOOSONEE DISTRICT

Box 190, Moosonee,	
Ont P0L 1Y0	Phone (705) 336-2987
A. J. Stewart	District Manager
G. N. Sanderson	Administration
G. F. McAuley	Field Services
J. P. Prevett	Biologist

NORTHEASTERN REGION

W. G. Cleaveley ..	Regional Director	199 Larch Street, Sudbury	
D. J. Vance	Deputy Reg Director	Ont. P3E 5P9 Phone (705) 675-4574	
R. M. Christie	Deputy Reg Director	V. C. Miller	Mining Recorder
J. C. Kindness	Admin Coord	J. C. Wilson	Mineral Coord.
A. W. McClellan ..	Cons Auth Prg-Supr	J. L. Canfield	Fire Mgmt Coord
D. Jodouin	Mining Lands Admin	C. A. Haxell	Biologist
P. E. Giblin	Geologist 566-2580 Sault Ste. Marie (705)	H. Walsh	Engineer
M. V. St. Jules	Mining Recrdr 254-6884	W. C. Stevens	Forester
G. M. Bennett	Geologist 942-1414	E. E. Multamaki	Lands Coord
		C. Clark	Parks-Rec Coord
Tarentorus Trout Rearing Station, D. V. Storms (S.S. Marie)		Phone (705) 253-8953	
North Bay Trout Rearing Station, B. A. Marchant (North Bay)		Phone (705) 663-2311	
Sandfield Fish Hatchery, G. Clarke (Espanola)		Phone (705) 859-3340	

SAULT STE. MARIE DISTRICT

Box 130, 69 Church St, S.S. Marie	
Ont P6A 5L5 Phone (705) 949-1231	
J. H. Sellers	District Manager
H. J. Smith	Administration
L. G. Bell	Fire Control
E. A. Pozzo	Fish & Wildlife
F. Janser	Forests
I. J. Valentine	Lands
L. R. Davey	Parks

NORTH BAY DISTRICT

Box 3070, North Bay,	
Ont P1B 8K7 Phone (705) 474-5550	
E. Rogers	District Manager
G. E. Lacelle	Administration
K. T. Fuller	Field Services
M. R. Wolfe	Fish & Wildlife
D. E. Honeyborne..	Forests
R. V. Coulombe	Lands
H. J. Edmundson ..	Parks

WAWA DISTRICT

Box 1160, Wawa	
Ont P0S 1K0 Phone (705) 856-2396	
W. J. Straight	District Manager
Mrs. J. M. Kern	Administration
A. J. Bull	Field Services
H. A. Orr	Outdoor Rec
C. K. Sumi	Forests
E. V. Uhler	Lands

TEMAGAMI DISTRICT

Box 38, Temagami,	
Ont P0H 2H0 Phone (705) 569-3622	
R. G. McGee	District Manager
W. W. Hicks	Administration

SUDBURY DISTRICT

Box 3500, Stn A, Sudbury	
Ont P3A 4S2 Phone (705) 522-7823	
J. A. Simpson	District Manager
M. H. Jackson	Administration
F. C. Shaver	Field Services
G. J. Haarmeyer ..	Fish & Wildlife
D. R. Potvin	Forests
M. K. Smith	Lands
K. H. Moore	Parks

BLIND RIVER DISTRICT

Box 190, 62 Queen St, Blind River,	
Ont P0R 1B0 Phone (705) 356-2234	
D. L. Hagar	District Manager
F. McWhinnie	Administration
W. J. Davis	Field Services
S. B. Woodside	Fish & Wildlife
C. F. Husk	Forests
R. H. Wood	Lands
G. W. Connell	Parks

ESPAÑOLA DISTRICT

Box 1340, 148 Fleming St., Espanola	
Ont P0P 1C0 Phone (705) 869-1330	
E. N. Arbuckle	District Manager
F. J. Valiquette	Administration
D. R. Hughson	Outdoor Rec
J. F. Christian	Forests
D. C. Carnochan ..	Lands

H. G. Smith	Field Services
W. P. Brook	Forests
R. B. Sinclair	Lands & Parks
S. T. Flemming	Fish & Wildlife

ALGONQUIN REGION

K. K. Irizawa Regional Director
 A. E. Walroth Deputy Reg Director
 R. H. Hamblly Deputy Reg Director
 J. Carswell Admin Coord
 C. W. Douglas Biologist
 A. P. Stephen Engineer
 B. Petman Fire Mgt Officer

Pembroke Trout Rearing Station, A. G. Moore
 Skeleton Lake Fish Hatchery, M. E. Beathune

PARRY SOUND DISTRICT

4 Miller Street, Parry Sound
 Ont P2A 1S8 Phone (705) 746-2401
 W. J. Lovering District Manager
 G. F. Walter Administration
 C. R. Mumford Field Services 5825
 J. A. Macfie Fish & Wildlife
 G. C. Felton Forests
 J. A. Shalla Parks
 L. A. Connely Lands

ALGONQUIN PARK DISTRICT

Box 219, Whitney
 Ont K0J 2M0 Phone (705) 637-2780
 T. J. Millard Park. Supt, Dist. Man.
 J. E. Growse Administration
 R. W. Stewart Fish & Wildlife
 D. F. George Forests
 J. E. Elliott Lands
 J. T. Griffin Alg Park Operations
 B. A. Norris Field Services

BRACEBRIDGE DISTRICT

Box 1138, Bracebridge,
 Ont P0B 1C0 Phone (705) 645-5244
 J. H. Lever District Manager
 J. S. Purves Administration
 J. T. Matthews Field Services
 D. M. Brooks Fish & Wildlife
 G. K. Schultz Forests
 J. A. Bryant Lands
 R. G. Ellis Parks

THE LESLIE M. FROST NATURAL RESOURCES CENTRE

Dorset, Ont P0A 1E0. Phone (705) 766-2451.

G. A. Hamilton Director
 S. A. Williams A/Plan & Mgmt Supt
 H. Curnow Operations Supt
 D. L. Lillow Field Services
 W. A. Chambers .. Finance & Admin
 T. G. Wright Food Services
 H. J. Barnhart Maint Foreman

Box 9000, Brendale Square, Huntsville,
 Ont P0A 1K0 Phone (705) 789-9611

H. J. Henry Forester
 (vacant) Geologist
 J. K. Barker Lands Co-ord
 J. A. van der Meer Parks & Rec Co-ord
 Phone (613) 687-5935
 Phone (705) 769-3731

BANCROFT DISTRICT

Box 500, Bancroft,
 Ont K0L 1C0 Phone (613) 332-3940
 M. P. Barker District Manager
 F. Buchan Administration
 M. F. Rush Field Services
 V. B. Collins Fish & Wildlife
 F. J. Walker Forests
 D. W. McLennan .. Parks
 O. J. Fleming Lands
 H. Meyn Geologist

PEMBROKE DISTRICT

Box 220, Riverside Drive, Pembroke,
 Ont K8A 6X4 Phone (613) 732-3661
 L. J. Haas District Manager
 A. H. Plummer Administration
 C. R. Buske Field Services
 A. E. Armstrong Fish & Wildlife
 W. W. Wahl Forests
 E. N. McKenzie Lands & Mines
 G. D. Yarranton Parks

MINDEN DISTRICT

Minden,
 Ont K0M 2K0 Phone (705) 286-1521
 D. D. White District Manager
 R. E. Raby Administration
 T. C. Russell Field Services
 D. G. Atkinson Fish & Wildlife
 B. G. Cross Forests
 J. E. Dewey Lands & Parks

Specialists:

P. J. Berges Forestry
 M. E. Buss Fish & Wildlife
 C. K. Macdonald .. Recreation
 J. A. Stocking Lands
 B. A. Martin A/Visitor Services

EASTERN REGION

J. R. Oatway	Regional Director	Provincial Government Building, Concession Road, Kemptville Ont K0G 1J0	Phone (613) 258-3413
D. E. Gage	Deputy Reg Director		
S. R. Hamilton	Deputy Reg Director		
W. B. Bowles	Admin Coord		
D. G. Watton	Biologist	W. G. Maslen	Lands Co-ord
R. W. Beecher	Cons Auth Prg-Supr	W. P. Barber	Parks & Rec Co-ord
J. R. Stork	Engineer	Dr. M. A. Klugman	Mines Co-ord
P. E. Anslow	Forester	J. W. Lloyd	Field Services Co-ord
Codrington Fish Hatchery, A. H. Draves			Phone (613) 475-2512
White Lake Fish Hatchery, K. Steele			Phone (613) 335-2115
Westport Fish Hatchery, G. E. Raine			Phone (613) 273-2106
G. Howard Ferguson Forest Station, A. J. Campbell			Phone (613) 258-3413

TWEED DISTRICT

Metcalfe Street, Tweed, Ont K0K 3J0	Phone (613) 478-2330
W. Vonk	District Manager
G. J. O'Hearn	Administration
W. F. Caverly	Lands
J. C. Williamson ..	Outdoor Rec
W. M. Fasken	Forests
W. J. Miller	Field Services
Dr. P. W. Kingston	Res Geologist

LANARK DISTRICT

Box 239, Lanark, Ont K0G 1K0	Phone (613) 259 2942
J. R. Bailey	District Manager
G. N. Hill	Administration
H. K. von Rosen ..	Fish & Wildlife
J. D. McCready	Forests
D. G. Kennedy	Field Services
K. J. Schonauer	Parks & Lands

OTTAWA DISTRICT

Ramsayville, Ont K0A 2Y0	Phone (613) 822-2525
W. D. Adlam	District Manager
R. E. Brousseau ..	Administration
R. N. Jones	Outdoor Rec
M. Schaefer	Forests
S. R. Johnston	Field Services, Lands

NAPANEE DISTRICT

1 Richmond Blvd, Napanee, Ont K7R 3S3	Phone (613) 354-2173
R. G. Bailey	District Manager
R. A. Armstrong	Administration
W. A. Perrin	Forests, Field Serv
R. G. Baldwin	Fish & Wildlife
R. Griffiths	Lands
J. C. Matheson	Parks

BROCKVILLE DISTRICT

101 Water St West, Brockville, Ont K6V 5Y8	Phone (613) 342-8524
R. H. Trotter	District Manager
D. G. Gilmer	Administration
G. L. Penney	Fish & Wildlife
W. Hardy	Forests
G. Tabobondune ..	Field Services & Lands & Parks

CORNWALL DISTRICT

Box 1749, 113 Amelia St, Cornwall, Ont K6H 5V7	Phone (613) 933-1774
J. R. Morin	District Manager
W. J. Humphrys	Administration
W. R. Lannin	Fish & Wildlife
B. W. Warwick	Forests
K. E. Green	Field Services, Parks
B. W. McCue	Lands

CENTRAL REGION

R. M. Dixon	Regional Director ..	295	10,670 Yonge Street, Richmond Hill
A. D. Latornell	Dep Reg Director ..	297	Ont L4C 3C9 Phone (416) 884-9203
F. G. Shaw	Dep Reg Director ..	290	M. Narain Geologist
H. Tjoelker	Admin Coord ..	208	L. G. D. Thompson Mines Co-ord ... 232
J. B. Dawson	Biologist	282	M. G. Lewis Service Engineer 216
R. D. Hunter	Cons Auth Co-ord ..	206	H. J. Featherston .. Parks-Rec Co-ord 299
R. N. Staley	Forester	289	J. F. Gosnell Lands Co-ord 234

Midhurst Forest Station, Midhurst, C. R. Groves	Phone (705) 728-6599
Orono Forest Station, Orono, W. R. Bunting	Phone (416) 983-9147
Ontario Tree Seed Plant, Angus, R. B. Latimer	Phone (705) 424-5311
Deer Lake Fish Hatchery, R.R. 1, Havelock, G. Cation	Phone (705) 778-3391

MAPLE DISTRICT

Maple, Ont L0J 1E0	Phone (416) 832-2761
I. B. Earl	District Manager .. 203
W. B. Pottelberg ..	Administration 300
D. M. Hogg	Fish & Wildlife .. 211
C. D. Simpson	Lands 208
M. Charbonneau	Parks
Si Dae Kim	Forests, Fld Serv .. 224
R. N. Kervin	Mineral Resources 210

LINDSAY DISTRICT

322 Kent St West, Lindsay, Ont K9V 4T7	Phone (705) 324-6121
C. R. Gray	District Manager
A. V. Kaufman	Administration
P. A. Smith	Fish & Wildlife
T. Tworzyanski	Forests, Fld Serv
L. C. Selby	Lands & Minerals
R. W. Allen	Parks

HURONIA DISTRICT

Midhurst, Ont L0L 1X0	Phone (705) 728-2900
W. D. Mansell	District Manager
A. W. Smith	Fish & Wildlife
R. O. Brandes	Forests
D. R. MacArthur ..	Services
J. R. Winters	Parks
P. Hale	Wasaga Project

CAMBRIDGE DISTRICT

Box 2186, Cambridge, Ont N3C 2W1	Phone (519) 658-9355
W. R. Catton	District Manager
B. J. DeGunst	Administration
G. M. Tupling	Fish & Wildlife
S. Yorgan	Forest Mgmt
R. J. Cleroux	Parks
D. A. Routly	Lands & Minerals

NIAGARA DISTRICT

Box 1070, Highway No. 20, Fonthill, Ont L0S 1E0	Phone (416) 892-2656
J. E. Dickenson	District Manager
Mrs. J. T. Mace ..	Administration
E. A. Kraker	Forests, Fld Serv
H. D. Howell	Outdoor Recreation
B. H. Feenstra	Lands & Minerals

SOUTHWESTERN REGION

N. D. Patrick	Regional Director	1106 Dearness Drive, London, Ont N6E 1N9	Phone (519) 681-5350
J. M. Halpenny	Deputy Reg Director		
(vacant)	Deputy Reg Director		
D. W. Munch	Admin Coord	B. G. Bryant	Mineral Resources
(vacant)	Biologist	J. A. Fingland	Lands Co-ord
R. J. McClure	Cons Auth Prg-Supr	E. F. Murphy	Parks & Rec Co-ord
P. H. Crook	Engineer		
E. P. Johnston	Forester		
Chatsworth Fish Hatchery, P. H. Hartman			Phone (519) 794-2340
Wiarton Fish Hatchery, C. Core			Phone (519) 534-0770
Normandale Fish Hatchery, W. A. Hooper			Phone (519) 426-3142
St. Williams Forest Station, R. E. Laupert			Phone (519) 586-3576
Petroleum Resources Lab, London, P. Palonen			Phone (519) 433-8431

CHATHAM DISTRICT

Box 1168, 435 Grand Ave West, Chatham, Ont N7M 5L8	Phone (519) 354-7340
J. D. Parker	District Manager
H. Lehmann	Admin, Eng Services
(vacant)	Fish & Wildlife
K. Yaraskavitch	Forests
(vacant)	Parks
H. W. Rowe	Lands, Min Resources

SIMCOE DISTRICT

645 Norfolk Street North, Simcoe, Ont N3Y 3R2	Phone (519) 426-7650
M. F. McKenzie	District Manager
E. D. McKenzie	Administration
J. M. Collins	Fish & Wildlife
D. A. Scott	Forests
T. L. Beck	Parks & Rec
W. L. Edwards	Lands, Eng Services
	Mineral Resources

OWEN SOUND DISTRICT

611 Ninth Ave East, Owen Sound, Ont N4K 3E4	Phone (519) 376-3860
R. W. Tippett	District Manager
M. Gobeil	Administration
S. A. Munroe	Fish & Wildlife
V. W. Fisk	Forests
R. J. Manley	Lands, Min Resources
P. H. Baxter	Parks
E. G. Walker	Fire, Eng Services

WINGHAM DISTRICT

R.R. 5, Wingham Ont N0G 2W0	Phone (519) 357-3131
N. R. Richards	District Manager
B. G. Griffin	Administration
W. A. Creighton	Parks, Fish, Wildlife
H. R. Lancaster	Forests
A. D. Carr	Lands & Minerals, Field Services

AYLMER DISTRICT

353 Talbot Street West, Aylmer Ont N5H 2S8	Phone (519) 773-2423
P. R. Davidson	District Manager
D. N. Stephens	Administration
G. R. Austin	Fish & Wildlife
W. C. Gilmore	Forest Resources
D. G. Ward	Parks, Lands
	Mineral Resources



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City of
Sources

Statistics

1981



Statistics 1981

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\$2.00



**Ministry of
Natural
Resources**

Hon. Alan W. Pope
Minister
W. T. Foster
Deputy Minister

Statistical Reports

Prepared by Branches

3 **Ministry of Natural Resources**
4 Office of Deputy Minister
5 Ministry Regions and Districts

7 **Forest Resources Group**
7 Forest Resources Branch
18 Timber Sales Branch

31 **Mineral Resources Group**
31 Ontario Geological Survey
36 Mineral Resources Branch
41 Mining Taxation and OMEP Office

43 **Outdoor Recreation Group**
43 Wildlife Branch
49 Parks and Recreational Areas Branch
61 Fisheries Branch

77 **Lands and Waters Group**
77 Land Management Branch
83 Surveys and Mapping Branch
85 Office of Indian Resource Policy
86 Land Use Co-ordination Branch
88 Conservation Authorities and Water Management Branch

90 **Aviation and Fire Management Centre**

99 **Administration Division**

100 Communications Services Branch
101 Personnel Services Branch
103 Energy/BILD Office
104 Administrative Services Branch
106 Legal Services Branch

113 **Finance, Planning and Evaluation Group**
113 Financial Services Branch
117 Internal Audit Services Branch
118 Budget and Program Evaluation Branch

119 **Regions and Districts**
119 Northwestern Region
120 North Central Region
121 Northern Region
122 Northeastern Region
123 Algonquin Region
124 Eastern Region
125 Central Region
126 Southwestern Region

Cover Photo: In 1980-81, a total of 51 of the Ministry's pickup trucks were converted to propane fuel as an energy conservation measure.

MINISTRY OF NATURAL RESOURCES*

Hon. Alan W. Pope	Minister of Natural Resources.
W. T. Foster	Deputy Minister.
G. A. McCormack	Assistant Deputy Minister, Northern Ontario.** Northwestern Region North Central Region Northern Region Northeastern Region Aviation and Fire Management Centre
J. R. Sloan	Assistant Deputy Minister, Southern Ontario.*** Algonquin Region Eastern Region Central Region Southwestern Region
M. Mogford	Assistant Deputy Minister, Administration.

MINISTERIAL AGENCIES

G. H. Ferguson, Q.C.	Mining and Lands Commissioner.
D. R. Wilson	General Manager, Niagara Parks Commission.
R. F. Harrison.....	General Manager, St. Clair Parkway Commission.
I. D. Bird	General Manager, Algonquin Forest Authority.
R. H. Cook	General Manager, St. Lawrence Parks Commission.

* Main Office in Whitney Block, Parliament Buildings, Toronto, Ontario M7A 1W3.

** Box 5000, 435 James St. South, Thunder Bay 'F', Ontario P7C 5G6.

*** Maple, Ontario L0J 1E0.

OFFICE OF DEPUTY MINISTER

Room W-6320, Main Office. Telephone (416) 965-2704.

Deputy Minister.....	W. T. Foster	W-6320 . . . 2704
Administrative Assistant	Mrs. I. Mack	W-6320 . . . 5873
Science Adviser and Research Co-ordinator	Dr. M. F. Walmsley	W-6350 . . . 5720

POLICY CO-ORDINATION SECRETARIAT

Director	Mrs. M. B. Fordyce	W-6547 . . . 8422
Secretary	Mrs. J. Nicholson	W-6540 . . . 8422
Outdoor Recreation Policy Officer	D. W. Simkin	W-6546 . . . 6712
Resource Products Policy Officer	E. E. Multamaki	W-6549 . . . 6712
Lands and Waters Policy Officer	L. A. Douglas	W-6545 . . . 6371
Economic Policy Officer	L. Lamothe	W-6543 . . . 6371
Special Products Policy Officer	J. M. Kearns	W-6550 . . . 6371
Recreation Analyst	J. D. Ross	W-6542 . . . 6712

MINISTRY REGIONS AND DISTRICTS

Areas in Square Kilometres*

NORTHWESTERN REGION

Dryden	11 961
Fort Frances	10 847
Ignace	11 463
Kenora	14 188
Red Lake	64 105
Sioux Lookout	112 097
	224 661
Pt. Rainy Lake	1 222
Pt. Lake of the Woods	2 427
Total, Region	228 310

NORTHERN REGION

Chapleau	23 602
Cochrane	30 715
Gogama	7 752
Hearst	25 245
Kapuskasing	21 225
Kirkland Lake	13 312
Moosonee	215 741
Timmins	7 899
Pt. Lake Abitibi	790
Total, Region	345 491

ALGONQUIN REGION

Algonquin Park ...	9 376
Bancroft	4 239
Bracebridge	6 454
Minden	4 745
Parry Sound	7 187
Pembroke	7 306
Pt. Georgian Bay	3 875
Total, Region	39 307

SOUTHWESTERN REGION

Aylmer	6 731
Chatham	7 389
Owen Sound	7 817
Simcoe	2 818
Wingham	6 889
Pt. Lake Huron and Lake Erie	30 950
Pt. Lake St. Clair	673
Total, Region	31 644

* August 19, 1980
Surveys and Mapping Branch

NORTH CENTRAL REGION

Atikokan	11 321
Geraldton	112 784
Nipigon	25 574
Terrace Bay	12 673
Thunder Bay	28 451
	190 803
Lake Nipigon	5 006
Pt. Lake Superior	16 017
Total, Region	211 826

NORTHEASTERN REGION

Blind River	9 516
Espanola	9 523
North Bay	10 668
Sault Ste. Marie ...	7 912
Sudbury	12 725
Temagami	6 856
Wawa	22 535
	79 735
Pt. Lake Huron and Lake Superior .	25 298
Lake Nipissing	816
Lake Wahnapitae..	145
Total, Region	26 259

EASTERN REGION

Brockville	3 496
Carleton Place	6 277
Cornwall	5 594
Napanee	6 537
Tweed	6 605
Pt. Lake Ontario	28 509
	4 333
Total, Region	4 333

CENTRAL REGION

Cambridge	7 141
Huronia	6 550
Lindsay	6 856
Maple	4 812
Niagara	2 670
	28 029
Pt. Lake Ontario and Lake Erie	8 109
Lake Simcoe	741
Total, Region	8 850

TOTALS

47 Districts	968 179
12 Lakes	100 403
Area of Ontario	1 068 582

MINISTRY REGIONS AND DISTRICTS

Areas in Square Miles*

NORTHWESTERN REGION

Dryden	4,618
Fort Frances	4,188
Ignace	4,426
Kenora	5,478
Red Lake.....	24,751
Sioux Lookout	<u>43,281</u>
Pt. Rainy Lake	472
Pt. Lake of the Woods	<u>937</u>
Total, Region	<u>88,151</u>

NORTHERN REGION

Chapleau	9,113
Cochrane	11,859
Gogama	2,993
Hearst	9,747
Kapuskasing	8,195
Kirkland Lake	5,140
Moosee.....	83,298
Timmins	<u>3,050</u>
Pt. Lake Abitibi.....	<u>305</u>
Total, Region	<u>133,700</u>

ALGONQUIN REGION

Algonquin Park ...	3,620
Bancroft	1,637
Bracebridge	2,492
Minden	1,832
Parry Sound	2,775
Pembroke	<u>2,821</u>
Pt. Georgian Bay	<u>1,496</u>
Total, Region	<u>16,673</u>

SOUTHWESTERN REGION

Aylmer.....	2,599
Chatham.....	2,853
Owen Sound.....	3,018
Simcoe	1,088
Wingham	<u>2,660</u>
Pt. Lake Huron and Lake Erie	<u>11,950</u>
Pt. Lake St. Clair	<u>260</u>
Total, Region	<u>24,428</u>

NORTH CENTRAL REGION

Atikokan	4,371
Geraldton	43,546
Nipigon	9,874
Terrace Bay	4,893
Thunder Bay	<u>10,985</u>
Lake Nipigon	<u>1,933</u>
Pt. Lake Superior	<u>6,184</u>
Total, Region	<u>81,786</u>

NORTHEASTERN REGION

Blind River	3,674
Espanola	3,677
North Bay	4,119
Sault Ste. Marie ...	3,055
Sudbury	4,913
Temagami	2,647
Wawa	<u>8,701</u>
Pt. Lake Huron and Lake Superior .	<u>9,767</u>
Lake Nipissing	<u>315</u>
Lake Wahnapitae..	<u>56</u>
Total, Region	<u>40,924</u>

EASTERN REGION

Brockville	1,350
Carleton Place	2,423
Cornwall	2,160
Napanee	2,524
Tweed	<u>2,550</u>
Pt. Lake Ontario.....	<u>1,673</u>
Total, Region	<u>12,588</u>

CENTRAL REGION

Cambridge	2,757
Huronia.....	<u>2,529</u>
Lindsay	2,647
Maple	1,858
Niagara	<u>1,031</u>
Pt. Lake Ontario and Lake Erie	<u>3,131</u>
Lake Simcoe.....	<u>286</u>
Total, Region	<u>14,239</u>

TOTALS

47 Districts	373,816
12 Lakes.....	<u>38,766</u>
Area of Ontario	<u>412,582</u>

* August 19, 1980
Surveys and Mapping Branch

FOREST RESOURCES GROUP

Room W-3623, Main Office. Telephone (416) 965-2785.

Executive Co-ordinator	A. H. Peacock	W-3623 . . . 4319
Secretary	Mrs. I. Hart .....	..... 4319
Administrative Officer	L. P. Comeau	W-3622 . . . 2731
Program Analyst	D. H. Cope	W-3650 . . . 2575
Chief Forester	Prof. K. A. Armon	W-3621 . . . 3040
Assistant Chief Forester	F. C. Robinson	W-3631 . . . 2785
Chief Forest Economist	L. S. Lambert	W-3630 . . . 2785

FOREST RESOURCES BRANCH

Room W-3632, Main Office. Telephone (416) 965-2785.

Director	Dr. R. J. Bourchier	W-3645 . . . 2787
Advisory Services Section		
Head Forestry Extension Services	J. F. W. Gourlay	W-3626 . . . 2785
Agreement Administration	J. Brown	W-3546 . . . 2731
Audit Co-ordinator	D. Holder	W-3644 . . . 2785
Assessment	M. Chaudhry	W-3649 . . . 2575
Silviculture Section Spvr.	C. J. Heeney	W-3653 . . . 2575
Planting Stock Spvr.	K. H. Reese	W-3648 . . . 2575
Environmental Silviculturist	A. van Fraassen	W-3651 . . . 2575
Silviculturist, Hardwood Pine	J. D. Scott	W-3642 . . . 2575
Silviculturist, Seed, Genetics	R. M. Rauter	W-3652 . . . 2575
Tree Stock Co-ordinator	H. H. Tiemann	W-3647 . . . 2785
Nursery Soils	V. Sadreika	W-3647 . . . 2575
Equipment Development Co-ord.	A. Citro	(Maple) 832-2761
Pest Control Section	Dr. R. Carrow	2761
Forest Pathologist	B. McGauley	2761
Forest Entomologist	C. S. Kirby	2761
Herbicide Specialist	Dr. R. A. Campbell	2761
Pesticide Applications	S. A. Nicholson	2761

ONTARIO FOREST RESEARCH CENTRE

Maple, Ontario L0J 1E0. Telephone (416) 832-2761

Head	Dr. D. Burger	Extension 317
Program Officer	S. R. A. Gourlay	324
Tree Breeding		
Poplar, soft pines	Dr. L. Zsuffa (Leader)	295
Spruce	J. V. Hood	295
Hard pines	G. P. Buchert	295
 Silviculture & Tree Biology		
Frost hardiness and dormancy	Dr. C. Glerum (Leader)	316
Hardwood quality	H. W. Anderson	312
Root development.....	Dr. D. C. F. Fayle	332
S. Ontario hardwoods, uplands	P. Jaciw	284
S. Ontario hardwoods, lowlands	H. C. Larsson	264
Seed	D. A. Skeates	305
Silviculture	G. Stroempl	327
 Site and Productivity		
Moisture.....	G. Pierpoint (Leader)	331
Mensuration	A. F. Beckwith	265
Tree nutrition.....	R. H. Leech	306
Foliar analysis.....	Y. T. Kim	304
Biomathematics	Dr. F. L. Raymond	319
Photography	J. Robinson	321
 FIELD UNITS		
Box 2960, Thunder Bay, Ont. P7B 5G5		
White spruce	N. F. Lyon (Leader)	(807) 767-1607
Black spruce	K. M. McClain	1607
Stand dynamics & fir silviculture	G. B. MacDonald	1607
Poplar.....	D. H. Weingartner	1607
Mathematician	R. Forslund	1607
Box 490, Sault Ste. Marie, Ont. P6A 5M7		
Spruce, nutrient cycling	Dr. A. G. Gordon	(705) 949-9461
Box 190, Dorset, Ont. P0A 1E0		
Tolerant hardwoods	M. M. McLean	(705) 766-2671
Midhurst, Ont. L0L 1X0		
Nursery research	(vacant)	(705) 726-7640

FOREST TREE PRODUCTION BY MINISTRY NURSERIES

Number of trees in years ending March 31

Year	Bare Root	Container	Total
1971	68,182,719	4,427,678	72,610,397
1972	76,597,391	5,079,258	81,676,649
1973	68,161,039	2,862,114	71,023,153
1974	65,362,395	3,402,228	68,764,623
1975	59,794,450	3,148,406	62,942,856
1976	50,944,733	5,346,866	56,291,599
1977	45,981,122	4,291,764	50,272,886
1978	48,291,842	5,461,375	53,753,217
1979	52,928,125	5,487,210	58,415,335
1980	61,453,461	7,944,817	69,398,278
1981	65,360,243	10,496,839	75,857,082

USE OF NURSERY STOCK IN YEAR ENDING MARCH 31, 1981

Use	Bare Root	Container	Total
Crown land & Agreement			
Forest	39,160,334	10,496,839	49,657,173
*WIA	9,335,244	—	9,335,244
Other Private Land	14,948,635	—	14,948,635
Education or Science	567,880	—	567,880
Miscellaneous	1,348,150	—	1,348,150
TOTAL	65,360,243	10,496,839	75,857,082

* The Woodlands Improvement Act.

TREE PRODUCTION BY SPECIES

Number of trees in years ending March 31

Species	1977	1978	1979	1980	1981
White Spruce	14,477,741	14,440,212	13,704,591	16,687,027	14,384,928
Black Spruce	5,736,509	8,507,184	13,170,734	11,800,627	17,365,106
Red Pine	9,043,522	7,011,779	8,627,330	8,215,238	8,534,677
Jack Pine	12,484,841	15,114,368	12,831,439	18,832,062	19,143,238
White Pine	3,404,115	2,404,671	3,694,571	5,181,787	6,431,427
White Cedar	993,950	1,185,767	493,254	1,461,566	2,381,005
Scotch Pine	534,120	984,600	893,316	1,483,794	1,500,375
Silver Maple	648,797	514,600	584,853	423,958	563,229
Norway Spruce	324,549	387,904	902,881	1,158,639	1,367,267
Carolina Poplar	426,488	479,211	487,769	532,077	583,863
Black Walnut	323,364	360,775	341,587	301,305	459,275
White Ash	43,231	409,964	505,194	222,264	256,239
European Larch	124,545	180,502	154,055	175,874	489,290
Yellow Birch	409,925	160,400	205,827	41,440	80,144
Red Oak	366,199	160,208	398,192	499,244	258,284
Black Locust	155,577	145,708	212,583	190,235	203,250
Tamarack	110	9,450	28,238	255,211	143,777
Hemlock	115,161	118,049	130,456	529	68,746
Cottonwood	12,375	22,050	13,325	—	53,725
Hybrid Poplar					
Rooted	—	—	61,350	110,839	112,422
Unrooted	53,375	192,925	515,608	943,821	818,530
Japanese Larch	200,000	433,625	7,000	253,366	156,965
Aspen, unrooted	—	—	—	91,948	—
Other Species	394,392	529,265	451,182	535,427	501,320
Total	50,272,886	53,753,217	58,415,335	69,398,278	75,857,082

TREES SUPPLIED FOR PLANTING ON PRIVATE LANDS

in years ending March 31

County or District	1977	1978	1979	1980	1981
Algoma	161,077	176,540	234,705	281,900	305,955
Brant	55,350	73,275	142,750	207,300	222,850
Bruce	256,350	110,675	119,385	282,953	194,197
Cochrane	245,675	277,750	482,720	560,600	705,480
Dufferin	253,185	232,335	325,915	486,250	507,385
Dundas	56,750	44,900	49,475	129,705	125,453
Durham**	103,150	286,345	378,775	480,901	479,450
Elgin	113,900	88,604	170,320	207,066	208,435
Essex	101,085	111,023	128,450	189,420	208,541
Frontenac	109,525	56,550	85,480	115,695	136,700
Glengarry	100,483	75,175	71,025	76,675	190,742
Grey	436,245	381,255	453,124	427,215	524,400
Haldimand	236,315	102,245	241,075	298,566	524,307
Haliburton	38,725	24,450	45,125	73,200	48,100
Halton	132,625	180,910	105,225	250,970	274,165
Hastings	155,450	98,210	126,125	172,443	169,042
Huron	171,067	150,922	234,575	185,406	273,100
Kenora	89,050	415,675	374,400	102,300	273,900
Kent	63,175	87,500	135,500	137,535	303,225
Lambton	95,125	108,275	87,990	178,900	192,941
Lanark	56,425	98,000	67,137	199,312	260,175
Leeds & Grenville	261,545	146,133	139,589	369,040	297,361
Lennox & Addington...	59,275	61,550	58,775	126,175	107,775
Manitoulin	8,200	11,150	10,550	55,500	27,400
Middlesex	205,005	204,306	231,282	340,788	616,575
Muskoka	46,900	36,550	86,800	66,250	73,250
Niagara	251,840	181,339	235,858	299,162	366,493
Nipissing	51,350	25,225	130,500	98,125	41,925
Norfolk .....	.....	102,000	2,610	32,600	1,100
Northumberland**	177,620	181,700	220,839	330,345	326,280
Ontario**	167,750	5,057	2,062	3,008	—
Ottawa-Carleton	158,442	164,392	101,225	396,699	300,615
Oxford	150,564	103,950	165,728	232,888	275,075
Parry Sound	94,500	78,650	147,275	273,600	338,250
Peel	294,448	136,630	233,487	295,543	289,669
Perth	79,425	122,545	83,198	200,053	177,450
Peterborough	113,507	113,338	228,231	195,967	202,400
Prescott	58,100	56,750	46,350	225,425	123,875
Prince Edward	56,675	55,200	75,070	79,000	86,825
Rainy River	72,550	200,350	51,625	83,675	97,325
Renfrew	236,275	212,728	339,094	262,425	420,025
Russell	81,550	63,476	61,600	182,200	207,150
Simcoe	517,491	606,435	837,865	1,044,115	1,268,225

** Totals do not reflect formation of the Regional Municipality of Durham.

County or District	1977	1978	1979	1980	1981
Stormont	32,410	33,785	36,225	84,518	138,703
Sudbury	156,800	305,700	254,612	372,482	465,222
Thunder Bay	113,700	98,191	141,875	133,675	418,325
Timiskaming	8,000	43,700	18,500	38,550	40,300
Victoria	121,131	103,549	154,615	250,207	283,922
Waterloo	95,625	71,900	118,450	267,950	170,052
Wellington	302,590	264,202	528,850	673,675	759,815
Wentworth	195,040	227,346	250,630	365,465	365,135
York	448,686	435,702	352,135	603,273	568,025
Durham Regional Municipality .....	.....	.....	300	—	1,550
Total	*7,647,726	*7,634,143	*9,405,081	*13,026,690	*14,984,635

* Excluding W.I.A.

FOREST AREAS MANAGED BY THE MINISTER

in Acres at March 31, 1981

Agreement Holders	Term of Agreement	Added 1980-81	Released 1980-81	Total
GOVERNMENT OF CANADA				
National Capital Commission .	Apr. 1961-Mar. 2011	.....	.....	3,532.00
22 CONSERVATION AUTHORITIES				
Ausable Bayfield	*Apr. 1964-Mar. 2004	.....	.....	4,299.00
Cataraqui Region	Apr. 1971-Mar. 1996	.....	.....	844.00
Catfish Creek	Apr. 1962-Mar. 2002	.....	.....	501.00
Crowe Valley	Jan. 1963-Dec. 2003	.....	.....	200.00
Ganaraska	Apr. 1960-Mar. 2000	.....	.....	8,639.00
Grand River	*Apr. 1961-Mar. 2000	.....	11.80	4,423.07
Lakehead Region	May 1958-Apr. 2008	.....	.....	1,244.20
Long Point Regional	*Apr. 1960-Mar. 2000	28.44	.....	6,411.09
Lower Thames Valley	Apr. 1964-Mar. 1984	.....	.....	300.00
Maitland Valley	Apr. 1955-Mar. 2005	.....	.....	849.00
Metropolitan Toronto & Region	*Apr. 1975-Mar. 2000	.....	.....	1,967.68
Moira River	*Apr. 1978-Mar. 2000	.....	.09	17,201.90
Napanee Region	Oct. 1954-Oct. 2004	.....	.....	6,666.00
Niagara Peninsula	June 1963-Mar. 2003	.....	.....	186.00
North Grey Region	June 1958-June 2008	.....	.....	7,250.73
Otonabee Region	*Apr. 1976-Mar. 2002	87.20	.....	3,620.20
Raison Region	Apr. 1971-Mar. 2001	.....	.....	340.00
Sauble Valley	Apr. 1960-Mar. 2002	.....	.....	3,816.00
Saugeen Valley	*Apr. 1960-Mar. 2002	.....	.....	14,067.97
South Nation River	Apr. 1975-Mar. 2000	100.00	.....	7,041.58
St. Clair Region	May 1965-Apr. 1985	.....	.....	150.00
Upper Thames River	*Apr. 1961-Mar. 2001	.....	.....	3,443.32
Sub-Total		215.64	11.89	93,461.74

* Replacement Agreement

Agreement Holders	Term of Agreement	Added 1980-81	Released 1980-81	Total
10 TOWNSHIPS				
Bonfield	Apr. 1952-Mar. 1982	.....	.....	60.00
Charlottenburgh	*Apr. 1975-Mar. 1995	.....	.....	175.00
Cramahe	Apr. 1963-Mar. 2003	.....	.....	162.00
Cumberland	*Jul. 1980-June 2030	105.00	.....	913.44
Darlington	*Apr. 1971-Mar. 1991	.....	.....	140.00
Galway & Cavendish	Nov. 1952-Oct. 1992	.....	.....	619.00
Machar	Sep. 1963-Aug. 1993	.....	.....	90.00
Mosa	Apr. 1963-Mar. 2003	.....	.....	144.00
Torbolton	Mar. 1953-Mar. 1983	.....	.....	430.80
Williamsburg	Apr. 1962-Mar. 2002	.....	.....	400.00
Sub-Total		105.00		3,134.24
19 COUNTIES				
Brant	*Apr. 1960-Mar. 2000	.....	.....	57.24
Bruce	*Apr. 1962-Mar. 2002	.....	50.00	15,333.35
Dufferin	*Apr. 1971-Mar. 1991	.....	.....	2,505.00
Grey	*Apr. 1960-Mar. 2000	.....	.....	8,168.64
Huron	*Apr. 1960-Mar. 2000	.....	.....	1,603.00
Kent	*Apr. 1960-Mar. 2000	.....	.....	75.39
Lanark	*Apr. 1960-Mar. 1980	.....	.....	8,928.00
Leeds & Grenville	*Apr. 1975-Mar. 1995	154.00	.....	13,627.00
Lennox & Addington	*Apr. 1960-Mar. 2000	.....	.....	1,166.90
Middlesex	*Apr. 1960-Mar. 2000	.....	.....	2,268.00
Northumberland	*Apr. 1961-Mar. 1981	.....	.....	5,059.73
Oxford	*Apr. 1961-Apr. 2000	.....	.....	848.56
Peterborough	*Apr. 1961-Mar. 1981	.....	.....	200.00
Prescott & Russell	*May 1960-Apr. 2000	.....	.....	26,041.93
Renfrew	*Apr. 1960-Mar. 2000	.....	.....	15,543.98
Simcoe	*Apr. 1960-Mar. 2000	109.31	5.58	28,113.85
Stormont, Dundas & Glengarry	*Apr. 1975-Mar. 2000	214.00	.....	7,336.96
Victoria	*Nov. 1976-Mar. 2000	.....	.....	8,642.43
Wellington	Apr. 1963-Mar. 1983	.....	.....	1,240.00
Sub-Total		477.31	55.58	146,759.96
6 REGIONAL MUNICIPALITIES				
Durham	*May 1960-Apr. 1980	.....	.....	2,647.30
Halton	*Apr. 1976-Mar. 2000	.....	.....	1,498.63
Hamilton-Wentworth	*Apr. 1961-Mar. 1981	.....	.....	980.95
Ottawa-Carleton	*Apr. 1974-Mar. 2004	590.00	.....	11,711.00
Waterloo	*Apr. 1976-Mar. 2001	.....	.....	718.70
York	*Apr. 1977-Mar. 2007	.....	.....	4,998.75
Sub-Total		590.00		22,555.33
INDUSTRY				
Domtar Ltd.	Apr. 1974-Mar. 1999	318.00		2,224.00
TOTAL, 59 Managed Forest Areas		1,705.95	67.47	271,667.27

* Replacement Agreement

SILVICULTURAL OPERATIONS

Classification of cutover forest land in year ending March 31, 1981
 Areas in hectares (acres in light face)

	Crown Land	Forest Management Agreements	Total Crown Land	Agreement Forests	W.I.A.	Other Patent Lands	Total
Harvest Cut, evenaged management	166,249 410,801	19,180 47,393	185,429 458,194	165 408	131 323	31,437 77,681	217,162 536,606
Harvest Cut, unevenaged management	10,948 27,053	— —	10,948 27,053	821 2,029	523 1,292	13,230 32,691	25,522 63,065
TOTAL.....	177,197 437,854	19,180 47,393	196,377 485,247	986 2,437	654 1,615	44,667 110,372	242,684 599,671

SUMMARY OF SILVICULTURAL OPERATIONS

Areas in Hectares (Acres in light face) in year ending March 31, 1981

	Crown Land	Forest Management Agreements	Total Crown Land	Agreement Forests	W.I.A.	Sub-Total	Other Patent Lands	Total
REGENERATION								
Planting Bare Root Stock	18,786	—	18,786	408	5,149	24,343	2,804	27,147
	46,421	—	46,421	1,008	12,723	60,152	6,928	67,080
Planting Container Stock	4,494	335	4,829	22	51	4,902	32	4,934
	11,105	828	11,933	54	126	12,113	79	12,192
Planting Hybrid Poplar cuttings	24	—	24	178	40	242	—	242
	59	—	59	440	99	598	—	598
Seeding	47,296	—	47,296	—	—	47,296	—	47,296
	116,868	—	116,868	—	—	116,868	—	116,868
Scarification	3,241	—	3,241	—	—	3,241	—	3,241
	8,009	—	8,009	—	—	8,009	—	8,009
Strip Cutting	1,562	—	1,562	6	—	1,568	—	1,568
	3,860	—	3,860	15	—	3,875	—	3,875
Seed Tree Cutting	3,717	217	3,934	—	—	3,934	—	3,934
	9,185	536	9,721	—	—	9,721	—	9,721
Shelterwood Cutting	9,794	—	9,794	50	95	9,939	48	9,987
	24,201	—	24,201	124	235	24,560	118	24,678
Clear Cutting	5,606	596	6,202	67	1	6,270	191	6,461
	13,852	1,473	15,325	166	2	15,493	472	15,965
Total	94,520	1,148	95,668	731	5,336	101,735	3,075	104,810
	233,560	2,837	236,397	1,807	13,185	251,389	7,597	258,986
RE-TREATMENT	7,981	—	7,981	199	1,390	9,570	4	9,574
	19,720	—	19,720	492	3,435	23,647	10	23,657

	Crown Land	Forest Management Agreements	Total Crown Land	Agreement Forests	W.I.A.	Sub-Total	Other Patent Lands	Total
TENDING								
Hand Cleaning	4,481	—	4,481	487	614	5,582	4	5,586
	11,072	—	11,072	1,203	1,518	13,793	10	13,803
Herbicide Spraying	25,404	—	25,404	467	2,169	28,040	2,058	30,098
	62,774	—	62,774	1,151	5,361	69,286	5,086	74,372
Thinning Improvement Cuts	8,209	—	8,209	1,635	1,888	11,732	1,630	13,362
	20,286	—	20,286	4,040	4,665	28,991	4,027	33,018
Pruning	853	—	853	499	294	1,646	—	1,646
	2,108	—	2,108	1,232	727	4,067	—	4,067
Fertilization Drainage	166	—	166	125	53	344	—	344
	410	—	410	309	131	850	—	850
Total	39,113	—	39,113	3,213	5,018	47,344	3,692	51,036
	96,650	—	96,650	7,935	12,402	116,987	9,123	126,110
SITE PREPARATION								
	48,807	2,250	51,057	549	1,414	53,020	360	53,380
	120,602	5,560	126,162	1,357	3,493	131,012	890	131,902
MARKING								
	43,390	—	43,390	2,568	4,015	49,973	7,319	57,292
	107,216	—	107,216	6,347	9,921	123,484	18,084	141,568
TOTAL AREA TREATED								
	233,811	3,398	237,209	7,260	17,173	261,642	14,450	276,092
	577,748	8,397	586,145	17,938	42,436	646,519	35,704	682,223

CROWN LANDS TREATED

Areas in hectares (acres in light face) in years ending March 31

Silvicultural Operations	1977	1978	1979	1980	1981
REGENERATION					
Planting Bare Root					
Stock	16,870	17,203	18,529	19,830	18,786
	41,687	42,509	45,785	48,998	46,421
Planting Container					
Stock	2,005	2,372	2,280	3,860	4,829
	4,955	5,860	5,633	9,539	11,933
Planting Hybrid Poplar					
Cuttings.....	—	—	—	—	24
	—	—	—	—	59
Seeding					
27,039	28,791	23,548	24,251	47,296	
	66,814	71,145	58,189	59,926	116,868
Scarification					
3,238	4,709	4,013	2,392	3,241	
	8,002	11,637	9,917	5,911	8,009
Strip Cutting					
1,959	3,359	2,580	2,058	1,562	
	4,840	8,301	6,376	5,086	3,860
Seed Tree Cutting					
4,106	5,789	6,325	7,339	3,934	
	10,147	14,304	15,630	18,135	9,721
Shelterwood Cutting ...					
7,938	8,234	10,669	9,867	9,794	
	19,614	20,346	26,364	24,383	24,201
Clear Cutting.....					
1,203	2,125	2,771	2,266	6,202	
	2,972	5,251	6,847	5,598	15,325
Total.....	64,358	72,582	70,715	71,863	95,668
	159,031	179,353	174,741	177,576	236,397
RE-TREATMENT					
—	8,982	3,435	2,072	7,981	
	—	22,195	8,487	5,120	19,720
TENDING					
Hand Cleaning					
4,576	7,857	4,855	5,326	4,481	
	11,308	19,417	11,998	13,161	11,072
Herbicide Spraying.....					
9,980	13,795	16,955	13,156	25,404	
	24,661	34,089	41,896	32,509	62,774
Thinning Improvement					
Cuts	13,848	17,273	12,853	8,511	8,209
	34,218	42,683	31,761	21,032	20,286
Pruning					
376	811	661	695	853	
	928	2,003	1,633	1,717	2,108
Fertilization Drainage ..					
115	183	188	172	166	
	283	451	464	424	410
Total.....	28,895	39,919	35,512	27,860	39,113
	71,398	98,643	87,752	68,843	96,650
SITE PREPARATION					
	34,694	41,895	42,834	49,061	51,057
	85,730	103,525	105,846	121,233	126,162
MARKING					
	46,271	46,572	50,243	50,607	43,390
	114,338	115,082	124,153	125,052	107,216
TOTAL AREA TREATED					
	174,218	209,950	202,739	201,463	237,209
	430,497	518,798	500,979	497,824	586,145

FOREST RESOURCES GROUP

TIMBER SALES BRANCH

Room W-3540, Main Office. Telephone (416) 965-2731.

Director	E. Markus	W-3545 . . . 3948
Forest Management Information Resources Inventory, Supervisor	J. E. Osborn	W-3603 . . . 7631
Operations Manager	B. Cardwell	W-3422 . . . 6914
Photo Interpretation	D. Trafford	W-3423 . . . 6914
Darkroom	(vacant)	W-3420 . . . 6914
FORMAGAIN, Supervisor	J. Howard	W-3520 . . . 6914
	W. E. Jenns	M-1B43 . . . 0214
Management Planning, Supervisor	(vacant)	W-3602 . . . 7631
Company Units	G. Protich	W-3606 . . . 7631
Crown and Agreement Units	H. P. van Bers	W-3604 . . . 7631
Chief Mensurationist	J. A. Mervart	W-3541 . . . 2731
Timber Allocation, Supvr.....	J. R. Keddie	W-3543 . . . 2731
Licence Forester	K. Cleary	W-3549 . . . 2731
Licence Officer	(vacant)	W-3544 . . . 2731
Agreement Administration	J. Brown	W-3546 . . . 2731
Industry Liaison	W. D. Wardle	Hearst NE 545 . . . 5760
Resources Economics	I. A. Nausedas	W-3548 . . . 2731
	O. J. Menezes	W-3540 . . . 2731
Wood Measurement, Supvr.	J. H. Butts	W-3612 . . . 0378
Provincial Wood Measurement		
Training Officer	J. H. Bingley	W-3611 . . . 0378
Data Processing	R. G. Johnson	W-3610 . . . 0378
Special Project & Forest Biomass Energy Co-ordinator	R. P. Alton	W-3547 . . . 2731

MANAGEMENT UNITS

Areas in square kilometres (square miles in light face) at March 31

Year	CROWN LAND FORESTS						AGREEMENT FORESTS			
	No.	Crown Area	No.	Company Area	No.	FMA Area	No.	Total Area	No.	Area
1977	88	333,821.0	26	199,348.8			114	533,169.7	60	1,036.0
		128,889.0		76,969.0				205,858.0		400.0
1978	88	333,821.0	26	199,348.8			114	533,169.7	60	1,064.5
		128,889.0		76,969.0				205,858.0		411.0
1979	88	333,821.0	17	199,348.8			105	533,169.7	59	1,077.4
		128,889.0		76,969.0				205,858.0		416.0
1980	88	334,418.0	17	198,751.0			105	533,169.0	60	1,090.0
		129,120.0		76,681.0				205,801.0		421.0
1981	78	333,402.0	14	165,016.0	5	45,584.0	97	544,002.0	60	1,096.0
		128,727.0		63,713.0		17,600.0		210,040.0		423.2

TIMBER LICENCES

Areas in square kilometres (square miles in light face) at March 31

Year	Under Section 2 No.	Under Section 2 Area	Under Section 3 No.	Under Section 3 Area	Under Section 5 No.	Under Section 5 Area	Total Licences No.	Total Licences Area
1977	31	584.3	395	254,387.3	14	160.6	440	255,132.2
		225.6		98,219.5		62.0		98,507.1
1978	28	33.9	386	241,194.4	14	69.9	428	241,298.3
		13.1		93,125.7		27.0		93,165.8
1979	44	39.1	415	239,531.2	19	96.3	478	239,666.6
		15.1		92,483.5		37.2		92,535.8
1980	78	75.6	412	242,711.9	20	86.5	510	242,874.1
		29.2		93,711.6		33.4		93,774.2
1981	56	69.4	428	243,918.6	64	329.7	548	244,317.7
		26.8		94,177.5		127.3		94,331.6

MILL LICENCES

Type of Mill	1976	1977	1978	1979	1980
Saw Mills, 8-hour capacity					
Lumber	over				
50M fbm		51	58	61	54
Lumber	10M to				
50M fbm		90	99	96	96
Lumber	under				
10M fbm		547	588	602	594
Misc. Sawn Products		27	31	30	41
Saw Mills, Total	715	776	789	785	842
Veneer Mills	26	24	24	28	31
Pulp Mills	23	22	23	23	21
Total	764	822	836	836	894

TIMBER HARVESTED ON CROWN LANDS BY SPECIES

In cubic metres (000s cubic feet in light face) and \$000s in years ending March 31

Species	1977	1978	1979	1980	1981
SOFTWOOD					
Balsam.....	418,522	529,184	556,482	612,228	855,962
	14,780	18,688	19,652	21,621	30,228
Cedar	11,327	12,289	15,574	21,139	12,912
	400	434	550	747	456
Hemlock	53,434	58,049	73,397	59,271	54,595
	1,887	2,050	2,592	2,093	1,928
Jack Pine	3,823,306	5,010,884	5,086,830	5,733,806	5,475,573
	135,019	176,958	179,640	202,487	193,368
Red Pine	144,444	174,205	144,444	177,397	173,186
	5,101	6,152	5,101	6,265	6,116
Scotch Pine .....	.....	.....	—	—	—
	—	—
White Pine	492,627	586,894	492,882	560,970	457,487
	17,397	20,726	17,406	19,810	16,156
Spruce	6,586,516	7,511,569	7,568,231	8,222,273	8,029,356
	232,601	265,269	267,270	290,367	283,554
Tamarack	2,832	1,926	2,152	4,269	5,239
	100	68	76	151	185
Mixed	2,237	7,079	6,683	9,209	9,231
	79	250	236	325	326
HARDWOOD					
Ash	1,274	1,303	1,727	2,304	1,387
	45	46	61	81	49
Basswood	6,088	7,759	11,100	12,836	8,382
	215	274	392	453	296
Beech.....	12,856	14,696	24,806	21,663	14,526
	454	519	876	765	513
White Birch	63,939	66,290	79,627	88,532	57,370
	2,258	2,341	2,812	3,126	2,026
Yellow Birch	122,838	111,115	111,851	112,682	83,563
	4,338	3,924	3,950	3,979	2,951
Butternut .....	.....	.....	28	13	—
	.....	.....	1	.....	—
Cherry	595	821	1,133	1,148	595
	21	29	40	41	21
Elm	878	623	283	283	113
	31	22	10	10	4
Maple	258,844	241,344	270,454	249,783	165,200
	9,141	8,523	9,551	8,821	5,834
Oak.....	6,456	8,920	11,270	13,266	10,024
	228	315	398	469	354
Poplar	792,672	1,059,586	1,319,903	1,384,875	1,297,761
	27,993	37,419	46,612	48,906	45,830
Mixed	323,633	452,984	592,897	626,132	585,423
	11,429	15,997	20,938	22,112	20,674
TOTALS					
Softwoods	11,535,216	13,892,165	13,946,675	15,400,562	15,073,554
	407,363	490,598	492,523	543,866	532,317
Hardwoods	1,590,073	1,965,497	2,425,051	2,513,517	2,224,358
	56,153	69,411	85,640	88,764	78,552
Total.....	13,125,289	15,857,662	16,371,697	17,914,078	17,297,912
	463,516	560,009	578,162	632,630	610,869
Value*	\$26,788	\$32,357	\$35,919	\$46,184	\$43,727

* Export Levy not included.

VOLUME AND VALUE OF TIMBER CUT FROM CROWN LANDS

in year ending March 31, 1981

Tree Species	Volume in Cubic Feet	Volume in Cubic Metres	Bonus \$	Crown Dues \$	Stumpage \$ Value
SOFTWOODS					
Scotch Pine	680.00	19.26	—	52.00	52.00
White Pine	16,155,736.31	457,479.56	586,377.78	1,094,163.02	1,680,540.80
Red Pine	6,116,058.72	173,187.52	171,572.11	392,530.34	564,102.45
Jack Pine	193,368,014.95	5,475,573.07	466,060.82	14,203,981.52	14,670,042.34
White Spruce	5,516,545.80	156,211.20	9,507.07	427,498.45	437,005.52
Black Spruce	26,126,594.90	739,822.87	32,957.92	2,035,151.15	2,068,109.07
Spruce, Mixed	251,911,155.63	7,133,330.41	801,687.08	18,597,374.67	19,399,061.75
Hemlock	1,928,119.50	54,598.27	18,196.56	128,790.30	146,986.86
Balsam	30,228,214.54	855,967.82	70,139.68	1,839,305.57	1,909,445.25
Cedar	455,759.24	12,905.67	4,060.24	33,514.29	37,574.53
Tamarack	184,556.61	5,226.06	466.36	12,570.52	13,036.88
Mixed Conifers	326,060.00	9,232.99	3,965.42	4,179.34	8,144.76
Total Softwoods	532,317,496.20	15,073,554.70	2,164,991.04	38,769,111.17	40,934,102.21
HARDWOODS					
Maple	5,833,548.68	165,187.72	139,355.07	485,298.85	624,653.92
Yellow Birch	2,951,401.39	83,574.39	141,266.41	264,217.75	405,484.16
White Birch	2,026,224.50	57,376.30	40,561.63	28,504.98	69,066.61
Oak	353,753.72	10,017.19	24,980.07	28,139.38	53,119.45
Beech	513,355.29	14,536.60	17,729.94	40,964.15	58,694.09
Ash	49,564.28	1,403.50	3,143.94	3,507.10	6,651.04
Elm	3,631.30	102.83	155.78	350.42	506.20
Basswood	295,836.59	8,377.16	26,579.52	20,789.72	47,369.24
Hickory	—	—	—	—	—
Butternut	508.73	14.41	49.97	39.57	89.54
Ironwood	13.52	.38	1.04	.19	1.23
Cherry	20,673.86	585.42	612.59	1,712.75	2,325.34
Poplar	45,830,408.07	1,297,772.79	176,794.07	679,605.59	856,399.66
Mixed Hardwoods	20,673,534.91	585,409.39	386,441.91	281,722.63	668,164.54
Total Hardwoods	78,552,454.84	2,224,358.08	957,671.94	1,834,853.08	2,792,525.02
GRAND TOTAL	610,869,951.04	17,297,912.78	3,122,662.98	40,603,964.25	43,726,627.23

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT

In cubic metres (000s cubic feet in light face) and \$000s in years ending March 31

Year	Cords		Cubic Feet		Foot Board Measure			Weight	Total	Stumpage Value
	Softwood	Hardwood	Softwood	Hardwood	Grade 1	Grade 2	Grade 3			
1977	3,057,308	400,711	5,099,318	358,632	145,520	182,870	81,467	3,805,530	13,146,148	\$26,788
	107,968	14,151	180,081	12,665	5,139	6,458	2,877	134,178	463,516	
1978	3,497,493	572,877	6,094,200	394,991	129,096	178,736	78,931	4,919,241	15,882,863	\$32,357
	123,513	20,231	215,215	13,949	4,559	6,312	2,783	173,446	560,009	
1979	3,936,658	694,300	5,862,540	531,167	125,132	202,040	105,506	4,922,332	16,397,743	\$35,919
	139,022	24,519	207,034	18,758	4,419	7,135	3,720	173,555	578,163	
1980	4,339,917	708,271	6,059,439	656,378	121,369	191,354	101,058	5,736,293	17,914,078	\$46,184
	153,263	25,012	213,987	23,180	4,286	6,758	3,569	202,575	632,630	
1981	4,046,179	664,864	5,855,397	471,051	83,192	133,923	65,384	5,977,929	17,297,913	\$43,727
	142,889	23,479	206,781	16,635	2,938	4,729	2,309	211,108	610,869	

TIMBER HARVESTED ON CROWN LANDS BY REGIONS

(Administrative Regions of Ministry of Natural Resources)
In cubic metres (000s cubic feet in light face) in years ending March 31

Regions	1980	1981
Northwestern		
Softwoods	3,621,019	3,626,199
127,875	128,058	
Hardwoods	38,722	50,659
1,367	1,788	
North Central		
Softwoods	5,209,534	4,746,640
183,973	167,626	
Hardwoods	839,366	789,049
29,642	27,865	
Northern		
Softwoods	5,154,315	5,151,203
182,023	181,912	
Hardwoods	414,242	396,549
14,629	14,004	
Northeastern		
Softwoods	1,027,730	1,091,700
36,294	38,553	
Hardwoods	601,760	509,817
21,251	18,004	
Algonquin		
Softwoods	349,480	440,922
12,342	15,571	
Hardwoods	534,308	402,524
18,869	14,215	
Eastern		
Softwoods	38,304	16,905
1,353	597	
Hardwoods	84,471	75,776
2,983	2,676	
Central		
Softwoods	179	—
6	—	
Hardwoods	648	—
23	—	
Southwestern		
Softwoods	—	—
—	—	
Hardwoods	—	—
—	—	
Total, Ontario		
Softwoods	15,400,562	15,073,554
543,866	532,317	
Hardwoods	2,513,517	2,224,358
88,764	78,552	
Total.....	17,914,078	17,297,912
	632,630	610,869

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT AND TREE SPECIES

— in year ending March 31, 1981

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
CORDS, ROUGH					
White Pine	3,232.89	274,795.65	7,781.35	16,552.61	17,669.88
Red Pine	6,082.14	516,981.90	14,639.30	16,078.50	16,311.62
Jack Pine	612,831.41	52,000,295.80	1,472,484.58	3,840,174.62	3,942,498.05
Scotch Pine	8.00	680.00	19.25	52.00	52.00
Black Spruce	173.79	14,772.15	418.30	1,129.64	1,241.69
Spruce, Mixed	741,959.95	63,066,655.35	1,785,849.02	4,717,343.93	4,864,616.44
Hemlock	3.00	255.00	7.22	19.50	26.92
Balsam	32,126.28	2,730,699.72	77,324.81	198,698.18	206,326.17
Cedar	2,167.17	184,209.45	5,216.23	13,421.08	13,910.38
Tamarack	1,882.54	160,015.90	4,531.15	10,797.40	10,840.93
Conifers, Mixed	80.42	6,835.70	193.65	235.62	235.62
White Birch	4,375.16	371,888.60	10,530.71	4,942.47	8,927.27
Poplar	165,809.83	14,093,826.03	399,092.76	209,149.21	252,054.54
Hardwoods, Mixed	9,370.53	796,495.05	22,554.23	10,197.87	65,301.77
Maple	592.72	50,318.20	1,424.85	622.36	925.27
Sub-Total	1,580,695.83	134,268,724.50	3,802,067.41	9,039,414.99	9,400,938.55
CORDS, PEELED					
Jack Pine	44,499.73	4,449,973.00	126,009.22	299,887.43	302,540.30
Spruce, Mixed	153,562.44	15,356,244.00	434,840.46	1,168,084.20	1,192,671.59
Balsam	38,077.02	3,807,702.00	107,822.13	243,442.85	250,106.92
Poplar	5,869.22	586,922.00	16,619.78	8,629.33	9,051.12
Sub-Total	242,008.41	24,200,841.00	685,291.59	1,720,043.81	1,754,369.93

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
CUBIC FEET					
White Pine	12,524,200.02	12,524,200.02	354,645.89	852,576.71	1,371,808.98
Red Pine	3,688,983.34	3,688,983.34	104,460.39	252,415.62	394,619.42
Jack Pine	54,665,854.00	54,666,640.80	1,547,987.07	4,054,108.05	4,186,903.27
White Spruce	5,516,545.80	5,516,545.80	156,211.20	427,498.45	437,005.52
Black Spruce	26,111,822.75	26,111,822.75	739,404.57	2,034,021.51	2,066,867.38
Spruce, Mixed	88,195,695.84	88,185,561.24	2,497,137.31	6,466,643.74	6,818,048.87
Hemlock	1,787,526.73	1,787,526.73	50,617.13	118,996.51	137,073.96
Balsam	10,004,171.16	14,004,010.15	396,549.45	726,749.38	757,948.66
Cedar	271,614.83	271,549.79	7,689.43	20,093.21	23,664.15
Tamarack	24,540.71	24,540.71	694.92	1,773.12	2,195.95
White Birch	1,654,335.90	1,654,335.90	46,845.58	23,562.51	60,139.34
Poplar	14,980,685.31	14,980,685.61	424,205.83	222,076.89	310,441.39
Sub-Total	219,425,976.39	223,416,402.84	6,326,448.77	15,200,515.70	16,566,716.89
BOARD FOOT MEASURE, GRADE 1					
Maple	10,526.54	1,672,950.46	47,372.69	256,044.78	315,420.40
Yellow Birch	6,038.96	918,074.08	25,996.97	146,524.77	204,568.71
Oak	681.55	111,675.18	3,162.29	17,055.95	25,724.17
Beech	849.11	137,765.85	3,901.09	20,634.99	27,388.76
Ash	75.89	12,452.78	352.62	1,840.81	2,864.72
Elm	8.58	1,369.09	38.77	214.65	294.80
Basswood	466.42	75,994.95	2,151.94	11,315.32	18,268.42
Butternut . . . . .	.87	150.42	4.26	21.66	43.19
Cherry	30.42	4,855.07	137.48	726.33	942.82
Hardwoods, Mixed	13.97	2,610.65	73.93	347.08	488.84
Sub-Total	18,692.31	2,937,898.53	83,192.04	454,726.34	596,004.83

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues	Stumpage Value \$
BOARD FOOT MEASURE, GRADE 2					
Maple	17,266.57	2,801,899.00	79,340.95	210,519.72	276,923.94
Yellow Birch	8,934.74	1,398,707.64	39,606.99	108,689.13	190,517.80
Oak	752.55	129,333.49	3,662.32	9,544.32	20,187.18
Beech	1,520.65	251,810.16	7,130.47	18,607.93	26,937.82
Ash	117.76	19,985.10	565.91	1,436.95	2,731.10
Elm	10.19	1,652.57	46.79	127.14	185.18
Basswood	659.46	111,179.42	3,148.25	8,037.47	22,575.51
Butternut	1.30	231.32	6.55	16.08	38.69
Cherry	78.53	12,873.67	364.54	945.38	1,283.54
Hardwoods, Mixed	9.53	1,780.37	50.41	118.11	190.50
Sub-Total	29,351.28	4,729,452.74	133,923.18	358,042.23	541,571.26
BOARD FOOT MEASURE, GRADE 3					
Maple	7,388.04	1,308,381.02	37,049.23	18,111.99	31,384.31
Yellow Birch	3,678.16	634,619.67	17,970.43	9,003.85	10,397.65
Oak	618.03	112,745.05	3,192.58	1,539.11	7,208.10
Beech	690.65	123,779.28	3,505.04	1,721.23	4,367.51
Ash	93.81	17,126.40	484.96	229.34	1,055.22
Elm	3.37	609.64	17.26	8.63	26.22
Basswood	592.91	108,662.22	3,076.97	1,436.93	6,525.31
Butternut	0.72	126.99	3.59	1.83	7.66
Ironwood	0.08	13.52	0.38	0.19	1.23
Cherry	16.53	2,945.12	83.39	41.04	98.98
Sub-Total	13,082.30	2,309,008.91	65,383.83	32,094.14	61,072.19

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
WEIGHED WOOD					
White Pine	1,891,146.46	3,356,740.64	95,052.32	225,033.70	291,061.94
Red Pine	1,005,996.48	1,910,093.48	54,087.83	124,036.22	153,171.41
Jack Pine	44,556,962.53	82,251,105.35	2,329,092.21	6,009,811.42	6,238,100.72
Spruce, Mixed	45,184,071.04	85,302,695.04	2,415,503.62	6,245,302.80	6,523,724.85
Hemlock	85,538.00	140,337.77	3,973.92	9,774.29	9,885.98
Balsam	5,973,218.39	9,685,802.67	274,271.42	670,415.16	695,063.50
Poplar	10,868,659.91	16,168,974.43	457,854.42	239,750.16	284,852.61
Hardwoods, Mixed	9,242,923.00	12,292,635.66	348,088.72	174,331.96	243,532.47
Sub-Total	118,808,515.81	211,108,385.04	5,977,924.46	13,698,455.71	14,439,393.48
FUELWOOD, CORDS					
Conifers	3,755.58	319,224.30	9,039.43	3,943.72	7,909.14
Hardwoods	88,860.76	7,580,013.18	214,642.10	96,727.61	358,650.96
Sub-Total	92,616.34	7,899,237.48	223,681.54	100,671.33	366,560.10
TOTAL TIMBER CUT IN PROVINCE					
	610,869,950.80	17,297,912.77	40,603,964.25	43,726,627.23	

PRINCIPAL STATISTICS OF ONTARIO'S FOREST INDUSTRY BY SECTOR

Source: Statistics Canada

Sector	Year	Establishments No.	Total Employees No.	Total Salaries and Wages \$000s	Fuel and Electricity \$000s	Materials and Supplies \$000s	Value of Shipments \$000s	Total Value Added \$000s
1975								
Logging		328	8,028	111,940	9,724	150,098	302,702	176,263
Wood Industries		726	19,284	185,822	12,975	340,021	638,441	306,896
Paper and Allied		302	45,178	497,083	93,261	1,064,969	2,126,441	999,360
Total		1,356	72,490	794,845	115,960	1,555,088	3,067,584	1,482,519
Furniture and Fixtures*		490	22,362	206,750	5,590	302,961	641,845	342,969
1976								
Logging		269	7,694	126,888	11,014	153,503	353,893	196,735
Wood Industries		683	19,868	212,309	17,561	386,944	734,319	343,414
Paper and Allied		301	45,645	612,501	145,410	1,291,516	2,459,739	1,083,376
Total		1,253	73,207	951,698	173,985	1,831,963	3,547,951	1,623,525
Furniture and Fixtures*		470	21,712	226,778	6,781	350,314	707,781	371,375
1977								
Logging		246	8,447	153,309	12,539	188,298	435,323	231,149
Wood Industries		645	20,110	242,641	22,715	447,267	870,023	410,509
Paper and Allied		287	43,488	681,113	197,186	1,440,021	2,826,617	1,207,415
Total		1,178	72,045	1,077,063	232,440	2,075,586	4,131,963	1,849,073
Furniture and Fixtures*		455	20,078	222,317	7,734	337,931	709,599	368,612
1978								
Logging		255	9,569	179,797	15,045	244,909	504,960	253,658
Wood Industries		707	21,942	279,260	27,712	541,657	1,077,962	515,321
Paper and Allied		319	45,209	747,394	228,829	1,616,288	3,145,697	1,317,821
Total		1,281	76,720	1,206,630	271,586	2,402,854	4,728,619	2,086,800
Furniture and Fixtures*		527	20,968	250,535	8,299	390,909	828,564	437,325
1979								
Logging		321	9,684	197,276	17,084	306,121	588,598	278,921
Wood Industries		761	22,902	320,144	31,134	690,807	1,319,647	629,169
Paper and Allied		334	46,172	827,101	252,576	2,007,803	3,872,205	1,661,591
Total		1,416	78,758	1,344,521	300,794	3,004,731	5,780,450	2,569,681
Furniture and Fixtures*		618	23,650	307,672	9,856	503,463	1,043,909	547,979

* Does not include furniture upholstery, re-upholstery and repair shops.

1980 SEED CROP BY SPECIES

	Volume Collected (hl)
Jack pine	17,052
White pine	1,035
Scotch pine	94
Red pine	74
Black spruce	1,142
White spruce	1,117
Black walnut	550
Red oak	64
White cedar	49
Other species	285
Total	21,462

1980 SEED REGENERATION PROGRAMS

Direct seeding	1,877,389,000
Nursery stock production	337,190,000
Container stock production	23,843,000
Research and miscellaneous	14,816,000
Total viable seed	2,253,238,000

1980-81 FORESTRY EXTENSION ACTIVITIES

THE WOODLANDS IMPROVEMENT ACT

	No. of Agreements	Areas in Hectares (acres)	
New Agreements Activated in 1980-81	802	8,395	20,745
Agreements in effect to March 31, 1981	8,478	144,342	356,677
No. of trees planted	9,335,244		

STATUS OF FOREST MANAGEMENT PLANS, MARCH 31, 1981

Areas in Square Kilometres (Square Miles)	Forest Management Units							Agreement No.	Area
	Crown No.	Area	Standard No.	Area	Company No.	FMA No.	Area		
Approved Standard Plans	40	132,431 (51,132)	5	51,556 (19,906)	—	—	—	41	889 (343)
Approved Standard Plans being revised	19	67,151 (25,927)	—	—	—	—	—	—	—
Original Standard Plans being Prepared	13	83,315 (32,168)	9	113,460 (43,807)	5	45,584 (17,600)	19	207 (80)	
Inactive Units	6	50,505 (19,500)							
Total	78	333,402 (128,727)	14	165,016 (63,713)	5	45,584 (17,600)	60	1,096 (423)	

MINERAL RESOURCES GROUP*

Room W-6341, Main Office. Telephone (416) 965-4271.

Executive Co-ordinator	G. A. Jewett	W-6341... 4271
Secretary	Mrs. P. Barchuk	W-6341... 4271
Head, Planning & Administration	G. E. Soucie	R-810 ... 5484
Financial Officer	K. H. Stahl	R-811 ... 2461

ONTARIO GEOLOGICAL SURVEY

Room 1121, 77 Grenville St., Toronto, Ont. M5S 1B3. Telephone (416) 965-1283.

Survey Director	Dr. E. G. Pye	R-1121 ... 1283
Program Evaluation Geologist	Dr. M. A. Lee	R-1117A .. 2095
Regional Liaison Geologist	C. R. Kustra	R-1119 ... 5180
Geoscience Research Grant Program ..	Mrs. W. Paquette	R-806 ... 1546
Precambrian Geology Section	Dr. V. G. Milne, Spvr.	R-914 ... 1321
North Archaen Group	H. Wallace	R-921 ... 1827
Central Archaen Group	Dr. P. C. Thurston	R-923 ... 1827
South Archaen Group	N. F. Trowell	R-907 ... 4817
Proterozoic Group	J. Wood	R-905 ... 2326
Engineering & Terrain Geology Sect.	Dr. O. L. White, Spvr.	R-707 ... 1182
Paleozoic & Mesozoic Group	Dr. P. G. Telford	R-706 ... 1182
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Mineral Deposits Section	Dr. A. C. Colvine, Spvr.	R-1026 ... 1466
Geoservices Section	Dr. A. E. Pitts, Spvr.	R-912 ... 5601
Geoscience Data Centre	H. A. Groen	R-804 ... 4641
Assessment Files Research	R. C. Owen	R-819 ... 6139
Geoscience Information	E. B. Freeman	R-807 ... 0190
Scientific Review	Mrs. G. M. Scott	R-718 ... 7325
Geoscience Laboratories	Dr. C. Riddle	R-1117 ... 1337
Mines Library	Mrs. N. Thurston	R-812 ... 1352
Technical Services	Ms. L. Burchat	R-915 ... 4245

*See Mining Lands and Prospecting Activities under Lands Administration Branch

MINERAL EXPLORATION ASSISTANCE PROGRAM (MEAP)

Summary of Approved Expenditures* in years ending March 31. Totals from April 1, 1971.**

Area	1978	1979	1980	1981	Area Total
COBALT-GOWGANDA	\$ 287,723	\$ 304,076	\$ 157,298	\$ 250,293	\$ 2,624,830
Company Expenditures	287,723	304,076	157,298	250,293	2,624,830
Government Payments	95,785	100,430	52,414	83,431	831,223
GERALDTON-BEARDMORE	2,808	53,053	60,630	245,587	1,772,110
Company Expenditures	2,808	53,053	60,630	245,587	1,772,110
Government Payments	936	17,684	20,210	66,526	535,040
KIRKLAND LAKE	258,535	442,091	854,745	927,610	3,846,768
Company Expenditures	258,535	442,091	854,745	927,610	3,846,768
Government Payments	85,860	146,538	250,885	254,217	1,151,522
RED LAKE	236,149	203,982	548,083	216,993	2,648,979
Company Expenditures	236,149	203,982	548,083	216,993	2,648,979
Government Payments	73,585	67,991	174,485	64,806	814,915
ATIKOKAN**	211,171	110,047	195,125	282,562	1,223,504
Company Expenditures	211,171	110,047	195,125	282,562	1,223,504
Government Payments	69,355	33,333	64,831	93,921	401,926
EASTERN ONTARIO**	403,753	172,827	254,711	103,094	1,518,468
Company Expenditures	403,753	172,827	254,711	103,094	1,518,468
Government Payments	120,341	69,491	84,589	33,730	489,071
TOTAL	1,400,139	1,286,076	2,070,592	2,026,139	13,634,659
Company Expenditures	1,400,139	1,286,076	2,070,592	2,026,139	13,634,659
Government Payments	445,863	435,467	647,514	596,630	4,223,696

*Under MEAP, the Government reimburses a company or individual one-third of the cost of an approved exploration expenditure up to a maximum of \$33,333.33. Approved company expenditures do not necessarily reflect the total company costs on MEAP projects.

**Atikokan began in 1974. Eastern Ontario began in 1975.

Note: MEAP has been terminated as of March 31, 1981 and this program replaced by OMEP (Ontario Mineral Exploration Program) applicable to all of Ontario.

ASSESSMENT FILES RESEARCH OFFICE

Office Operations	1975	1976	1977	1978	1979	1980	1946-80
FILES ADDED							
Technical Surveys and Summaries for							
Assessment Credit	277	240	240	300	350	453	7,017
MEAP	31	56	45	50	50	46	483
Ontario Securities							
Commission and Misc.	56	81	48	25	27	104	634
Drilling Reports	500	400	300	320	340	310	9,031
OPERATIONS							
Enquiries	2,821	2,685	3,460	3,527	3,274	2,577	.....
Files Examined	15,277	14,702	14,520	14,343	15,640	17,696	.....
Control Maps Examined	7,389	8,932	7,141	6,569	6,361	6,104	.....

LIST OF FIELD SURVEYS (REGULAR PROGRAM)

Ontario Geological Survey, 1980

No.	Location	Leaders
PRECAMBRIAN GEOLOGY SECTION		
1.	Lithophile Mineralization, NW Ontario	F. W. Breaks
2.	Red Lake Synoptic Survey	H. Wallace
3.	Slate Lake Area	R. P. Bowen
4.	Gibi Lake Area	N. F. Trowell
5.	Kawashegamuk Lake Area	C. E. Blackburn
6.	Parnes Lake Area	A. A. Speed
7.	Felsic Centres of Volcanism, NW Ontario.....	P. C. Thurston
8.	Calm Lake Area	S. L. Fumerton
9.	Fletcher Lake Area	R. H. Sutcliffe
10.	Terrace Bay Area	M. W. Carter
11.	Wawa Area	R. P. Sage
12.	Jerome Area	G. M. Siragusa
13.	Kirkland Lake-Larder Lake Synoptic Survey	L. S. Jensen
14.	Regional Geology — Cobalt Embayment	J. Wood
15.	Drag Lake Area	N. G. Culshaw
16.	Burleigh Falls Area	E. G. Bright
ENGINEERING AND TERRAIN GEOLOGY SECTION		
17.	Brampton Area	D. R. Sharpe
18.	Renfrew County	P. J. Barnett
GEOPHYSICS/GEOCHEMISTRY SECTION		
19.	Onaping — Chiniguchi — Welcome Lake, Gravity Study ..	V. K. Gupta
20.	Quetico — Rainy Lake, Lake Sediment & Water Survey ..	I. Thomson
21.	Acid Lakes North of Lake Superior.....	I. Thomson
22.	Kerr Addison Mine, Gamma Ray Mapping.....	I. Thomson
MINERAL DEPOSITS SECTION		
23.	Mine Centre — Fort Frances Area, Mineralization Study ..	K. H. Poulsen
24.	Grenville Province, Metallic Mineral Deposits	T. R. Carter
25.	Bancroft Area, Uranium Mineralization	S. L. Masson, J. B. Gordon

LIST OF FIELD SURVEYS (SPECIAL PROGRAM)

Ontario Geological Survey, 1980

No.	Location	Leaders
PRECAMBRIAN GEOLOGY SECTION		
1.	Molybdenite Lake Area	Z. L. Mandziuk
2.	Abitibi Alteration Study	E. C. Grunsky
3.	Morgan Lake-Nelson Lake Area	T. L. Muir
4.	Sudbury Irruptive, Footwall Study	B. O. Dressler
5.	Levack Township	B. O. Dressler
6.	Hill Lake Area	G. W. Johns
7.	Belmont and southern Methuen Townships	J. R. Bartlett, J. M. Moore
8.	Ardoch Lake Area	L. Pauk
9.	Kirkland Lake Stratigraphic Mapping	N. F. Trowell
ENGINEERING AND TERRAIN GEOLOGY SECTION		
10.	Red Lake and Madsen Areas, Quaternary Geology	V. K. Prest
11.	Dana Lake Area, Quaternary Geology	C. M. Tucker
12.	Magusi River Area, Quaternary Geology	C. L. Baker
13.	Cobalt Area, Quaternary Geology	M. Perttunen
14.	Coe Hill Area, Quaternary Geology	P. F. Finamore
15.	Campbellford, Trenton & Consecon Area, Quaternary Geology	J. G. Leyland, D. R. Sharpe, P. J. Barnett
16.	North Bay—Hearst—Kapuskasing Area, Aggregate Study	W. D. Scott, J. Z. Frazer
17.	Manitoulin Island, Limestone-Dolostone Study	M. D. Johnson
18.	Belleville — Kingston Area, Paleozoic Geology	D. M. Carson
GEOPHYSICS/GEOCHEMISTRY SECTION		
19.	Airborne Electromagnetic — Magnetic Surveys	D. R. Wadge
20.	Kirkland Lake Area, Geochemical Study	I. Thomson
MINERAL DEPOSITS SECTION		
21.	Alkalic Complexes, Industrial Mineral Study	M. A. Vos
22.	Northern Ontario, Nepheline Syenite and Feldspar	M. A. Vos
23.	Northern Ontario, Lime Sources	J. K. Mason, M. A. Vos
24.	Kirkland Lake Gold Study	F. R. Ploeger
25.	Cobalt Area, Alteration & Mineralization in Volcanics	H. Dillon-Leitch
26.	Southern Cobalt Embayment, Uranium Study	H. D. Meyn, M. K. Matthews

GEOSCIENCE RESEARCH GRANT PROGRAM

Summary of proposals and expenditures in years ending March 31
 R — Received. A — Accepted.

Universities	1979		1980		1981	
Proposals	R	A	R	A	R	A
Brock	2	1	2	0	2	1
Carleton	6	4	4	3	3	2
Guelph	1	1	1	0	0	0
Lakehead	0	0	1	0	1	1
Laurentian	3	1	3	2	4	3
McMaster	1	0	3	1	1	1
Ottawa	4	2	2	2	1	0
Queen's	3	1	3	2	4	3
Toronto	16	8	15	8	15	10
Waterloo	4	2	6	2	4	2
Western	5	2	6	5	6	5
Windsor	2	2	2	2	3	1
York	1	0	0	0	0	0
Total	48	24	48	27	44	29
Expenditures	\$401,153		\$475,567		\$499,600	

PUBLICATIONS RELEASED

Ontario Geological Survey

Types of Publication	1977	1978	1979	1980
Preliminary Maps	61	200	183	203
Colored Geology Maps	28	12	14	9
N. Ont. Engineering & Terrain Geology	—	—	11	51
Geophysical/Geochemical	242	253	426	34
Aggregate Resource Inventory Papers	—	—	1	21
Guidebooks	—	—	1	—
Mineral Deposit Circulars	1	1	2	—
Miscellaneous Papers	5	6	7	7
Open File Reports	14	22	22	42
Reports	13	16	11	7
Studies	3	—	1	—

MINERAL RESOURCES GROUP

MINERAL RESOURCES BRANCH

4th Floor, Section Six, Main Office. Telephone (416) 965-1559.

Branch Director	Dr. T. P. Mohide	1559
Mineral Statistics Section.....	G. Weatherson, Spvr.	0211
Metallic Minerals Section	Dr. G. Anders, Spvr.	1311
Industrial Minerals Section.....	S. E. Yundt, Spvr.....	1172

VALUE OF ONTARIO MINERAL OUTPUT BY MNR REGIONS

MNR REGIONS	1977	1978	1979
	\$	\$	\$
ALGONQUIN REGION			
Metallic minerals	—	—	—
Non-metallic minerals	—	—	—
Structural materials	—	—	—
Total	38,301,063	82,794,010	85,026,932
CENTRAL REGION			
Non-metallic minerals	4,500,083	4,887,049	4,789,766
Natural gas, petroleum	362,758	2,240,589	2,248,754
Structural materials	215,241,102	251,711,737	259,454,996 P
Total	220,103,943	258,839,375	266,493,516
EASTERN REGION			
Metallic minerals	—	—	—
Non-metallic minerals	—	—	—
Structural materials	—	—	—
Total	91,535,454	93,425,343	100,971,141
NORTH CENTRAL REGION			
Metallic minerals	196,883,732	178,286,494	214,719,805
Non-metallic minerals	—	—	—
Structural materials	5,314,165	5,570,738	4,127,021
Total	202,197,897	183,857,232	218,846,826 P
NORTHERN REGION			
Metallic minerals	383,089,226	407,973,913	584,530,403
Non-metallic minerals	2,119,408	2,045,044	2,228,022
Structural materials	3,846,252	4,090,812	3,841,462 P
Total	389,054,886	414,109,769	590,599,887
NORTHEASTERN REGION			
Metallic minerals	1,586,506,018	1,157,576,950	1,356,670,381
Non-metallic minerals	12,460,391	10,673,234	12,402,041
Structural materials	11,749,612	15,222,770	14,627,428 P
Total	1,610,716,021	1,183,472,954	1,383,699,850
NORTHWESTERN REGION			
Metallic minerals	238,182,313	239,454,845	339,401,530
Non-metallic minerals	—	—	—
Structural materials	3,280,834	5,292,637	5,047,880 P
Total	241,463,147	244,747,482	344,449,410
SOUTHWESTERN REGION			
Natural gas, petroleum	16,531,242	27,301,960	27,430,246
Non-metallic minerals	57,146,433	61,850,200	69,134,668
Structural materials	105,769,997	131,778,552	148,831,020 P
Total	179,447,672	220,930,712	245,395,934
Sand and gravel produced in unorganized territories	1,914,064	1,900,836	5,127,386 P
ONTARIO TOTAL	2,974,734,147	2,684,077,713	3,240,610,882

P — Preliminary

Source: Mineral Statistics Section, Ministry of Natural Resources

ONTARIO MINERAL PRODUCTION IN 1979 and 1980

1979 figures show final completion of shipments.

1980 figures are preliminary.

METALLIC MINERALS	Unit	Quantity	1979	Quantity	1980	Value
			Value \$		\$	
Cadmium	kg	672,837	4,795,677	665,000	4,919,000	
Calcium	kg	455,713	2,152,146	525,000	3,033,000	
Cobalt	kg	1,277,940	86,299,973	1,216,000	70,110,000	
Copper	kg	192,946,145	457,472,114	233,297,000	611,232,000	
Gold	g	19,172,867	221,473,644	18,360,000	387,925,000	
Iron Ore	tonne	7,874,939	287,190,991	6,524,000	262,578,000	
Lead	kg	6,968,696	9,206,177	10,268,000	11,217,000	
Magnesium	kg	9,014,999	24,444,031	8,899,000	27,037,000	
Nickel	kg	88,444,783	566,279,308	155,665,000	1,312,139,000	
Platinum Group	g	6,156,716	56,333,561	12,584,000	155,480,000	
Selenium	kg	18,325	581,356	44,000	1,101,000	
Silver	kg	411,947	171,832,807	450,000	354,161,000	
Tellurium	kg	3,130	161,667	5,000	236,000	
Tin	kg	95,773	1,745,703	100,000	2,235,000	
Uranium (U)	kg	4,005,263	375,793,251	4,275,000	413,481,000	
Zinc	kg	289,357,404	278,881,182	262,594,000	252,409,000	
Total Value, Metallic			\$2,544,643,588			\$3,869,293,000

NON-METALLICS	Unit	Quantity	1979	Quantity	1980	Value
			Value \$		\$	
Barite	tonne	.....	596,000	.....	750,000	
Gemstones	kg	.....	65,454	.....	70,000	
Gypsum	tonne	743,511	4,831,117	793,000	7,488,000	
Nepheline syenite ..	tonne	605,699	15,180,042	592,000	15,877,000	
Peat	tonne	7,035	675,547	8,000	815,000	
Quartz	tonne	980,279	8,965,420	1,294,000	10,108,000	
Salt	tonne	5,188,664	67,900,216	4,800,000	72,358,000	
Soapstone, Talc,						
Pyrophyllite	tonne	.....	914,257	.....	1,025,000	
Sulphur in smelter						
gas	tonne	315,992	6,221,013	525,000	13,542,000	
Sulphur Elemental .	tonne	20,293	673,199	22,000	1,200,000	
Total Value, Non-Metallics			\$106,022,265			\$123,233,000

Unit	Quantity	1979	Quantity	1980	Value
		Value \$		\$	
Natural gas ... 000 cu. m.	292,000	21,420,000	328,000	25,488,000	
Petroleum, crude...cu. m.	92,000	8,259,000	97,000	9,447,000	
Total Value, Fuels		\$29,679,000			\$34,935,000

STRUCTURAL MATERIALS	Unit	Quantity	1979	Value \$	Quantity	1980	Value
Clay products .....		.....	60,767,493		.....	59,527,000	
Cement.....tonne	tonne	4,117,179	182,252,209		4,238,000	225,594,000	
Lime .....tonne	tonne	1,317,944	51,920,880		1,295,000	60,590,000	
Sand and Gravel ... tonne	tonne	90,515,630	151,847,457		121,254,000	174,900,000	
Stone .....tonne	tonne	39,830,992	113,477,990		34,019,000	132,000,000	
Total Value							
Structural Materials			\$560,266,029				\$652,611,000
GRAND TOTAL FOR ONTARIO			\$3,240,610,882				\$4,680,072,000

.....Figures not available.

Source: Mineral Statistics, Ministry of Natural Resources, Revised April 1981.

ONTARIO CRUDE OIL

Production in cubic metres and barrels

Year	Annual m ³	Cumulative from 1863	
		bbl	m ³
1975	111,923	704,323	8,491,463
1976	98,763	621,508	8,590,226
1977	98,047	617,000	8,688,273
1978	94,417	593,868	8,782,690
1979	92,000	578,663	8,874,690
1980*	97,000	610,112	8,971,690

ONTARIO NATURAL GAS

Production in cubic metres and cubic feet

Year	Annual 000s m ³	Cumulative from 1890	
		000s cf	000s m ³
1975	309,778	10,935,471	22,378,334
1976	140,438	4,957,616	22,518,772
1977	241,523	8,526,000	22,760,295
1978	356,205	12,574,626	23,116,500
1979	292,000	10,311,883	23,408,500
1980*	328,000	11,583,211	23,736,500

* Preliminary

EMPLOYMENT IN ONTARIO MINING INDUSTRY

Year	Mines	Metallurgical	Quarries	Clay, Shale Sand & Gravel Pits	Contract Diamond Drilling	Total
1976	29,335	12,302	1,898	3,996	338	47,869
1977	26,863	17,215	1,614	2,505	304	48,501
1978		38,355	1,500	2,263	240	42,358

MINERAL RESOURCES GROUP

MINING TAXATION & OMEP OFFICE

Room W-4649, Main Office. Telephone (416) 965-1062.

Director and The Mine Assessor	K. S. Rachamalla	W-4649 . . . 1062
OMEP		
Administrator	F. W. Pooley	W-4650 . . . 1062
Evaluator	B. Gordon	W-4650 . . . 1062

MINING TAX ASSESSMENTS, MARCH 31, 1981

No. of Assessments Completed	45
Total value of mineral production assessed	\$2.55 billion
Taxes Payable per Assessments	\$44.5 million
Total Additional Tax, Interest & Penalty	\$1.1 million
Total Refund of taxes (paid in advance)	(\$0.8 million)

OMEP DESIGNATED PROGRAMS REGIONAL DISTRIBUTION

Sept. 1, 1980 to March 31, 1981

Region	No. of Programs	Total Expenditure (\$ Million)	Percentage of Total
Northern	46	19.80	58.4%
Northwestern	16	5.62	16.6
Northeastern	14	6.60	19.4
North Central	12	1.65	4.9
Algonquin & Eastern	6	.24	0.7
TOTAL	94	\$33.91	100.0%

OMEP DESIGNATED PROGRAMS, REGIONAL DISTRIBUTION

Sept. 1, 1980 to March 31, 1981

	Total Expenditure (\$ Million)	Percentage of Total
Gold, Silver	29.25	86.26%
Base Metals	1.20	3.54
Industrial Minerals	3.04	8.96
Other (Uranium) . . . . .	.42	1.24
TOTAL	\$33.91	100.0%

DETAILS OF THE 42 COMPLETED PROGRAMS:

Region	No.	Total Expenses (\$ Million)	Eligible Expenses (\$ Million)	Grant/Tax Credit (\$ Million)	Percentage of Total
Northern	18	3.6	3.2	.8	60.0%
Northwestern	3	.4	.4	.1	8.0
Northeastern	12	1.8	1.4	.4	27.0
North Central	5	.2	.2	.05	3.0
Algonquin & Eastern	4	.1	.09	.02	2.0
Eastern	1				
TOTAL	42	6.1	5.29	1.37	100.0%

OUTDOOR RECREATION GROUP

Room W-2340, Main Office. Telephone (416) 965-5661.

Executive Co-ordinator	L. H. Eckel	W-2341 . . . 5661
Secretary	Miss N. Nishi	W-2340 . . . 5661
Administration	P. S. King	W-2342 . . . 5661
Provincial Fisheries Scientist	K. H. Loftus	W-2342 . . . 5661
Program Analyst	R. A. Beatty	W-2342 . . . 5661
Enforcement Specialist	C. D. Copeland	W-2342 . . . 5661
Librarian	Mrs. S. Louet	W-4540 . . . 5661
Provincial Parks Council, Chairman	F. Gray	(416) 368-8305 Ex. 2574

WILDLIFE BRANCH

Room W-2320, Main Office. Telephone (416) 965-4251.

Branch Director	J. D. Roseborough	W-2327 . . . 4254
Program Development & Audit Section	D. A. Hagan, Spvr.	W-2321 . . . 4251
Habitat Development	D. L. Euler	W-2323 . . . 4251
Moose/Caribou Program	R. A. Stefanski	W-2331 . . . 4251
Upland Game/Waterfowl Program	J. L. Harcus	W-2332 . . . 4251
Deer/Bear Program	(vacant)	W-2330 . . . 4251
Non-game Program	I. E. Bowman	W-2322 . . . 4251
Wetland Habitat Co-ordination	V. A. Glooschenko	W-2303 . . . 7641
Policy Development Section	L. J. Post, Spvr.	W-2306 . . . 7641
Northern Environmental Policy	R. O. Standfield	W-2304 . . . 7641
Wildlife Policy Specialist	P. Allen	W-2309 . . . 7641
Wildlife Policy Specialist	W. L. Sleeth	W-2307 . . . 7641
Extension Development Section	L. Whistance-Smith, Spvr.	W-2326 . . . 4251
Wildlife Services Section	M. C. Smith, Spvr.	W-2328 . . . 4251
Commercial Wildlife Program	M. Novak	W-2423 . . . 3345
Hunter Education	W. M. McKittrick	W-2333 . . . 4251
Legal Services	M. Chromec	W-2329 . . . 4251
Data System	J. M. Barbowski	W-2325 . . . 4251

Box 50, Maple, Ont. L0J 1E0. Telephone (416) 832-2761.

Wildlife Research Section	C. D. MacInnes, Spvr.	Extension	241
Deer Study Scientist	R. L. Hepburn	Extension	241
Bio-Electronic Scientist	J. S. Lotimer	Extension	241
Field Studies Scientist	D. R. Voigt	Extension	241
Rabies Unit Leader	D. H. Johnston	Extension	241
Upland Game/Waterfowl Scientist	H. G. Lumsden	Extension	241
Predator Scientist	G. B. Kolenosky	Extension	241
Disease/Parasites Scientist	E. M. Addison	Extension	241

HUNTING STATISTICS — Estimates compiled from hunters surveyed by mail

Comparison between hunter numbers and licence sales gives an estimate of the number of licence holders who did not hunt.

MOOSE		RESIDENT		NON-RESIDENT				TOTALS	
Year	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
1976	75,670	543,200	9,420	7,770	55,400	1,450	83,440	598,600	10,870
1977	66,240	470,000	7,730	6,280	45,000	1,290	72,550	515,700	9,020
1978	79,210	542,000	10,630	6,970	52,100	1,320	86,180	594,100	11,950
1979	70,770	529,400	10,110	7,220	54,600	1,580	77,990	584,000	11,690
1980	71,670	426,700	7,670	3,930	25,200	690	75,600	451,900	8,360

DEER		RESIDENT		NON-RESIDENT				TOTALS	
Year	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
1975	82,030	442,900	11,740	3,010	16,400	* 830	85,040	459,300	* 12,140
1976	78,250	433,900	14,180	3,240	16,700	* 930	81,490	450,600	* 15,110
1977	85,840	433,200	13,510	2,720	14,300	* 810	88,200	447,500	* 14,310
1978	87,950	450,100	13,490	2,860	14,600	* 480	90,810	464,700	* 13,970
1979	78,440	415,800	13,200	1,560	8,700	* 370	80,000	424,500	* 13,570

BEAR***		RESIDENT		NON-RESIDENT				TOTALS	
Year	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
1971	1,030	6,800	.....	9,010	48,400	.....	10,040	55,200	.....
1972	1,120	7,400	6,330	9,300	49,500	2,620	10,420	56,900	8,950
1973	1,220	12,900	3,680	9,140	62,200	2,120	10,360	75,100	5,800
1974	1,140	6,200	1,950	9,500	52,100	1,680	10,640	58,300	3,630
1975	1,220	6,900	1,870	9,030	56,800	1,760	10,250	63,700	3,630

SMALL GAME**		RESIDENT		NON-RESIDENT				SUMMER HUNTING		RESIDENT	
Year	Hunters	Hunter Days	Hunters	Hunter Days	Year	Hunters	Hunter Days	Year	Hunters	Hunter Days	
1973	247,240	3,356,000	7,960	57,700	1972	18,720	369,500				
1974	225,840	3,299,000	7,380	52,100	1974	16,380	291,800				
1976	242,310	3,388,000	8,530	62,300	1975	16,170	246,800				
1978	226,693	2,975,400	8,724	55,100							
1979	214,550	2,829,600	10,520	65,700							

* Includes deer harvested on moose licences.

** Includes waterfowl.

*** Estimates of number of hunters and hunter-days are based on bear licenses only.
Harvest includes bear harvested on moose-bear, deer-bear and moose licences.

EXPENDITURE BY HUNTERS — (Excluding Licence Fees)

Survey Year*	Hunt	Estimates Compiled from Hunters Surveyed by Mail		
		Resident	Non-Resident	Total
1972-73	Bear	\$ 199,000	\$2,077,000	\$ 2,276,000
1973-74	Bear	255,000	2,336,000	2,591,000
1973-74	Moose	13,791,000	6,070,000	19,861,000
1976-77	Moose	17,821,000	3,192,000	21,013,000
1976-77	Deer	12,000,000	809,000	12,809,000
1976-77	Small Game	53,561,000	3,252,000	56,813,000
1978-79	Small Game	47,634,000	3,278,431	50,912,431
1979-80	Moose	22,833,000	3,803,000	26,636,000
1979-80	Deer	14,892,000	548,000	15,440,000
1979-80	Small Game	47,162,000	4,413,000	51,575,000
1980-81	Moose	21,334,000	2,302,000	23,636,000

HUNTING LICENCES SOLD

Year	DEER		MOOSE		BEAR	
	Resident	Non-Res	Resident	Non-Res	Resident	Non-Res
1976-77	86,641	5,017	83,618	7,897	1,869	9,325
1977-78	95,114	4,501	74,834	6,392	1,872	8,977
1978-79	97,477	4,453	87,751	7,186	2,672	10,477
1979-80	85,921	1,762	77,937	7,378	2,666	11,247
1980-81	87,985	823	79,688	4,011	9,064	11,682

Year	SMALL GAME		Resident	TOTAL		Total
	Resident	Non-Res		Non-Resident	Total	
1976	384,021	9,046	556,149	31,285	587,434	
1977	389,014	9,225	569,834	29,095	589,929	
1978	399,943	9,651	587,643	31,767	619,410	
1979	353,077	11,527	519,601	31,914	551,515	
1980-81	383,091	12,783	559,828	29,299	589,127	

LAW ENFORCEMENT

Seizures and convictions
in years ending March 31

LAND ACQUISITIONS FOR WILDLIFE MANAGEMENT

Areas in years ending March 31

Year	Seizures	Convct	Year	Hectares	Acres	Cost
1974	5,056	4,510	1972	1,871	4,620	\$903,259
1975	4,976	5,649	1973	1,040	2,569	\$572,323
1976	5,791	6,988	1974	241	595	\$105,452
1977	6,096	7,166	1975	384	948	\$242,025
1978	9,630	8,365	1976	163	403	\$216,602

* Hunting year: September 1 to August 31.

FUR HARVESTS — in years ending June 30

Average Pelt Value, 1980		Totals from Sealing Officers' Reports and Fur Dealers' Returns				
		1976	1977	1978	1979	1980
\$ 47.74	Beaver	156,105	136,856	147,556	170,644	209,135
26.50	Mink	17,194	14,856	20,557	21,704	27,377
30.87	Marten	18,006	20,768	38,878	52,169	45,861
68.81	Otter	7,507	7,835	8,592	9,943	11,112
171.50	Fisher	2,790	2,165	2,693	3,300	4,457
214.20	Lynx	1,918	1,151	1,722	1,873	2,485
126.82	Bobcat	25	24	16	30	33
8.19	Muskrat	487,238	435,290	433,163	526,890	605,966
31.64	Raccoon	47,560	44,223	93,178	105,263	116,249
1.50	Squirrel	6,076	5,817	4,180	7,645	16,922
1.78	Weasel	4,689	3,576	3,685	5,694	6,100
67.06	Col'rd Fox	11,809	10,131	15,979	19,282	18,854
45.62	Arctic Fox	127	101	199	164	176
74.73	Timb. Wolf	741	285	431	381	342
48.81	Coyote	1,319	2,276	4,394	3,218	3,819
49.00	Black Bear	288	283	284	511	818
156.72	Wolverine	1	....	11	8	9
3.52	Skunk	171	98	210	453	662
45.64	Grey Fox .....	....	....	1	3	1
541.75	Polar Bear	15	17	24	21	20
Total Pelts		763,579	685,752	775,753	929,196	1,070,398
Total Value		\$6,410,167	7,998,708	11,284,007	20,234,367	24,407,054

TRAPPER LICENCES, 1980

Registered	3,021 @ \$5 = \$15,105
Resident	9,917 @ \$5 = 49,585
Farmer, Indian Res	1,653 @ \$0 =
Registered Treaty	3,245 @ \$1 = 3,245
Resident Treaty	22 @ \$5 = 110
Totals	17,858 \$68,045

HUNTER EDUCATION PROGRAM

Training began in 1957. It became mandatory for new hunters in 1960 and for new hunters under the age of 20 years in 1968.

Year	ACTIVE INSTRUCTORS at Dec. 31	Yearly	STUDENTS TRAINED To Date	HUNTING ACCIDENTS		
				Non-Fatal	Fatal	Total
1976	1,005	31,785	420,172	50	6	56
1977	1,011	32,126	452,298	67	4	71
1978	879	38,500	490,798	60	8	68
1979	1,110	35,080	525,878	46	5	51
1980	1,400	32,000	557,878	56	6	62

PELTS — EXPORTED OR TANNED — in years ending June 30

Pelt	Quantity	1976 Value	Quantity	*1977 Value
Beaver	159,984	\$2,873,312.64	138,837	\$2,928,072.33
Bobcat	29	1,475.23	20	2,062.00
Fisher	2,820	169,905.00	2,219	251,678.98
Arctic Fox.....	152	4,636.00	153	5,104.08
Col'rd Fox.....	14,183	445,488.03	11,774	650,631.24
Lynx	1,954	248,490.18	1,125	260,921.25
Marten	18,463	146,266.96	21,858	334,208.82
Mink	17,512	148,151.52	15,743	178,525.62
Muskrat	479,671	1,515,760.36	449,291	1,936,444.21
Otter	7,757	363,105.17	7,994	701,153.74
Raccoon	71,172	864,028.08	64,728	1,232,421.12
Weasel .....	.....	.....	.....	.....
Skunk	212	375.24	3	4.50
Wolverine	3	279.33	.....	.....
Total	773,912	6,781,233.74	713,745	8,481,227.89

*Total Royalties Collected: \$265,499.10

Pelt	Quantity	*1978 Value	Quantity	1979 Value
Beaver	148,901	\$3,103,096.84	170,635	\$6,142,860.00
Mink	21,583	301,514.51	20,082	501,447.54
Marten	38,179	743,345.13	52,074	1,564,823.70
Otter	8,896	577,617.28	10,143	1,001,316.96
Fisher	2,690	270,102.90	3,993	781,700.07
Lynx	1,738	523,138.00	1,919	720,757.21
Bobcat	25	3,159.50	37	7,703.03
Muskrat	480,669	2,605,225.98	538,810	3,798,610.50
Raccoon	96,099	2,240,067.69	106,798	3,838,320.12
Arctic Fox.....	226	8,375.56	182	9,906.26
Coloured Fox.....	.....	.....	20,088	1,917,801.36
Grey Fox.....	.....	.....	7	383.67
Polar Bear	10	6,019.00	34	14,574.10
Timber Wolf	971	81,224.15	922	117,739.40
Coyote	3,565	150,835.15	3,531	249,818.25
Squirrel.....	3,548	5,251.04	8,028	12,764.52
Weasel	3,342	4,511.70	6,287	8,613.19
Black Bear	353	17,706.48	553	43,659.35
Skunk	274	901.46	550	2,403.50
Wolverine	8	1,316.80	9	1,560.78
Total	827,434	11,692,220.01	944,682	20,673,763.51

*Total Royalties Collected: \$588,552.80

Figures for pelts exported and tanned, 1980, unavailable; total royalties collected in the 1979-1980 season were \$1,156,593.65.

29 PROVINCIAL WILDLIFE AREAS

	Hectares	Acres
Aylmer Provincial Wildlife Area	184	455
Brighton Provincial Wildlife Area	388	959
Bruce Recreation Area	3 925	9,699
Camden Lake Wildlife Management Area	1 052	2,599
Darlington Provincial Park	111	274
Fingal Provincial Wildlife Area	293	724
Gananoque Provincial Wildlife Area	567	1,401
Holiday Beach Provincial Park	198	489
Holland Marsh Provincial Wildlife Area	573	1,416
Hoople Creek Provincial Wildlife Area	105	259
Hullett Provincial Wildlife Area	2 347	5,799
Kolapore Uplands Recreational Area	4 209	10,400
Long Point Provincial Wildlife Area	381	941
Luther Marsh Wildlife Area	5 666	14,001
Matchedash Bay Provincial Wildlife Area	225	556
McRae Point Provincial Park	152	375
Mountain Provincial Wildlife Area	1 457	3,600
Nonquon River Wildlife Area	1 133	2,800
Point Petre Provincial Wildlife Area	1 276	3,153
Presqu'ile Provincial Park	931	2,300
Puslinch Crown Resource Management Area	138	341
Rankin Wildlife Management Area	13 703	33,860
Rondeau Provincial Park	4 654	11,500
St. Edmunds Provincial Wildlife Area	6 799	16,800
Scugog Island	182	450
Sibbald Point Provincial Park	225	556
Stag Island Wildlife Management Area	17	42
Tiny Marsh Provincial Wildlife Area	567	1,401
Wye Marsh Provincial Wildlife Area	919	2,271

13 WILDLIFE EXTENSION LANDOWNER AGREEMENT AREAS

	Hectares	Acres
Aylmer Ponds	43	106
Beverly Swamp	430	1,063
Binbrook	401	991
Calton Swamp	96	237
Christie	340	840
Crooks Hollow	17	42
Hawk Cliff	34	84
Lake St. Lawrence	6 070	14,999
Mud Lake	61	151
Orangeville Reservoir	316	781
Valens	223	551
Waterford Lakes	304	751
Willoughby Marsh	227	561

OUTDOOR RECREATION GROUP

PARKS AND RECREATIONAL AREAS BRANCH

Room W-3329, Main Office. Telephone (416) 965-5160.

Branch Director	N. R. Richards	W-3329 . . . 5160
Policy Co-ordinator	W. B. Sargent	W-3329 . . . 2745
Secretary	Mrs. M. Naumoff	W-3329 . . . 2745
Planning Manager	G. D. Boggs	W-3342 . . . 3981
Planning Secretary	Mrs. E. Mason	W-3342 . . . 3981
Sr. Planner, Research	D. Hallman	W-3344 . . . 3981
Sr. Planner, Parks & Heritage Res.	M. Garscadden	W-3343 . . . 3981
Sr. Planner, Rec. Areas & Resources ..	K. McCleary	W-3350 . . . 3981
Research Planner	D. Driscoll	W-3352 . . . 3981
Recreational Areas Planner	R. Phillips	W-3346 . . . 3981
Earth Sciences Planner	R. J. Davidson	W-3349 . . . 3981
Life Sciences Planner	T. J. Beechey	W-3348 . . . 3981
Cultural Resources Heritage Planner ..	G. Forma	W-3345 . . . 3981
Planning Technician	R. Speck	W-3351 . . . 3981
Operations Manager	W. Robertson	W-3521 . . . 1245
Operations Secretary	Mrs. J. Miller	W-3521 . . . 1245
Operations Steno	Ms. R. Coombs	W-3521 . . . 1245
Parks Operations Officer	J. D. Barrow	W-3521 . . . 1245
Parks Technician	B. van Staalduin	W-3521 . . . 1245
Interpretive Specialist	K. Vogan	W-3521 . . . 1245
Rec. Areas Operations Officer	Ms. S. MacFeeters	W-3521 . . . 1245
Recreation Areas Technician	B. Huis	W-3521 . . . 1245
Extension Specialist	F. Bishop	W-3521 . . . 6278
Mgmt. Information Co-ordinator	S. Girling	W-3521 . . . 1245
Mgmt. Information Clerk	Ms. D. Gluzdziecka	W-3521 . . . 1245
Development Manager	G. Ashenden	W-3320 . . . 2745
Development Secretary	Mrs. G. Shaw	W-3320 . . . 2745
Development Clerk	Ms. P. R. Naylor	W-3320 . . . 2745
Receptionist	Mrs. R. Watkins	W-3320 . . . 2745
Senior Landscape Architect	G. Pittenger	W-3320 . . . 2745
Landscape Architect	J. Huang	W-3320 . . . 2745
Design Engineer	R. B. Lockwood	W-3320 . . . 2745
Development Engineer	I. Johnson	W-3320 . . . 2745
Environmental Sanitation Co-ord.	S. Cowan	W-3320 . . . 2745
Draftsperson	Ms. M. Lehoczky	W-3320 . . . 2745
Design Co-ordinator	H. Miles	W-3320 . . . 2745
Sanitary Engineer	J. Kolodziej	W-3320 . . . 2745
Electrical Designer	J. Konya	W-3320 . . . 2745
Architectural Designer	A. Chappelle	W-3320 . . . 2745
Mechanical Designer	G. Szepielewicz	W-3320 . . . 2745

Marketing & Communication Mgr.	W. Yetman	W-3301	2780
Marketing Secretary	Miss C. Klemens	W-3301	2780
Information Officer	N. Beaudry	W-3301	2780
Audio Visual Group Leader	L. Walton	W-3311	2780
Head Graphic Design	(vacant)	W-3301	2780
Graphic Designer	A. Gokhan	W-3301	2780
Audio Visual Designer	G. Merchant	W-3311	2780
Sr. Graphic Designer	(vacant)	W-3301	2780
Sr. Travel Counsellor	Ms. H. Borrowman	W-3304	3081
Marketing Clerk	(vacant)	W-3301	2780

PUBLIC USE OF PROVINCIAL PARKS

Year	Vehicle Entries	Interior Campers	Campers	Average Days	Camper Nights	Total of Visitors
1976	3,431,189	99,373	1,515,353	2.5	3,747,209	10,616,237
1977	3,276,625	92,611	1,371,039	2.5	3,807,344	10,431,166
1978	2,940,238	82,601	1,324,808	2.2	3,116,421	9,570,382
1979	(NR)	73,961	1,355,733	2.3	3,259,752	**5,161,563
1980	(NR)	76,136	1,319,762	2.4	3,195,477	5,210,712

PERSONAL VISITOR SERVICES CONTACTS

Year	Parks	Guided Tours	Film Programs	Other Programs	Individual Contacts	Total Contacts
1979	56	45,480	168,280	74,106	217,195	505,061
1980	56	43,278	163,877	88,338	196,882	492,375

NON-PERSONAL VISITOR SERVICES CONTACTS

Year	Parks	Visitor Activity Centres	Free	Interpretive Publications Priced	Self-Guiding Interpretive Trails	Total Contacts
1979	57	557,216	443,402	108,935	338,979	1,448,532
1980	59	423,191	787,004	71,926	361,663	1,643,784

GROWTH OF PROVINCIAL PARKS — Areas in hectares and acres

Year	Camping Parks	Units	No.	Reserve Areas ha	Ac	No.	Provincial Parks ha	Ac
1976	96	19,851	105	508,720	1,257,047	122	4,359,257	10,771,959
1977	97	20,035	107	951,760	2,351,800	126	4,360,546	10,775,144
1978	98	20,176	139	964,334	2,382,913	128	*4,269,268	*10,543,250
1979	97	20,723	134	920,558	2,274,738	128	*4,255,375	*10,514,349
1980	97	20,723	101	949,726	2,347,409	131	4,257,266	10,518,947
			37	***18,167	45,092			

*Boundaries of some parks redefined.

**Visitation calculated from permit sales.

***Any area acquired by MNR for recreational purposes other than for use as a Provincial Park.

NR - Vehicle entries no longer recorded.

131 PROVINCIAL PARKS IN OPERATION IN 1980

Region, District Provincial Park	Hectares	Area Acres	Developed Campsites	Campers	Camper Nights
NORTHWESTERN REGION					
RED LAKE					
Pakwash	631	1,558	60	1,469	2,588
KENORA					
Rushing River	190	469	194	19,345	39,661
Sioux Narrows	129	320	71	3,310	6,739
FORT FRANCES					
Caliper Lake	134	331	92	5,334	10,164
Lake of the Woods	1,097	2,711	100	6,345	14,804
DRYDEN					
Aaron	70	173	98	6,518	8,122
Blue Lake	354	874	188	11,596	29,986
SIOUX LOOKOUT					
Ojibway	2,630	6,500	50	3,861	3,861
IGNACE					
Sandbar Lake	3,157	7,800	77	6,980	9,775
Total, 9 Parks	8,392	20,736	930	64,758	125,700
NORTH CENTRAL REGION					
ATIKOKAN					
Quetico (Dawson Trail).....	475,783	1,175,684	133	5,291	12,237
THUNDER BAY					
Inwood	33	82	85	6,649	7,046
Kakabeka Falls	420	1,039	156	26,667	37,825
Middle Falls	4	11	25	2,293	2,633
Sibley	24,435	60,380	217	9,905	26,310
NIPIGON					
Lake Nipigon	1,458	3,604	80	3,327	5,290
GERALDTON					
Klotz Lake	119	293	30	1,895	2,457
MacLeod	74	183	84	6,197	14,509
TERRACE BAY					
Neys	3,445	8,512	150	17,995	24,405
Rainbow Falls	575	1,422	225	20,846	26,603
Total, 10 Parks	506,346	1,251,210	1,185	101,065	159,315
NORTHERN REGION					
HEARST					
Fushimi Lake	5,294	13,081	40	2,955	6,335
Nagagamisis	8,131	20,092	165	4,079	13,024
MOOSONEE					
Polar Bear	2,408,700	5,952,018	—	—	—
Tidewater	980	2,421	36	497	903
KAPUSKASING					
Remi Lake	2,964	7,325	122	6,904	16,128
COCHRANE					
Greenwater	5,350	13,220	107	4,251	8,866
TIMMINS					
Kettle Lakes	1,261	3,116	165	9,486	22,508

Region, District Provincial Park	Hectares	Area Acres	Developed Campsites	Campers	Camper Nights
KIRKLAND LAKE					
Esker Lakes	3,237	8,000	130	3,796	11,507
Kap-Kig-Iwan	276	681	64	4,396	7,243
CHAPLEAU					
Five Mile Lake	456	1,128	45	2,475	3,391
Ivanhoe Lake	1,589	3,926	148	4,634	12,319
Missinaibi Lake	48,403	119,606	44	1,785	7,529
The Shoals	11,198	27,670	58	2,888	4,984
Wakami Lake	8,806	21,760	68	3,177	13,707
Total, 14 Parks	2,506,645	6,194,044	1,192	51,323	128,444
NORTHEASTERN REGION					
WAWA					
Lake Superior	155,659	384,641	352	23,436	35,494
Obatanga	9,409	23,250	120	11,879	16,187
White Lake	1,726	4,265	290	14,874	21,377
SAULT STE. MARIE					
Batchawana	169	418	—	—	—
Pancake Bay	466	1,151	340	12,658	42,996
BLIND RIVER					
Mississagi	2,883	7,124	101	4,954	17,796
ESPANOLA					
Chutes	108	268	91	15,314	21,883
SUDSBURY					
Fairbank	105	260	160	7,124	19,551
Halfway Lake	4,730	11,688	215	10,551	16,773
Killarney	34,126	84,328	128	7,002	28,367
Windy Lake	118	292	76	4,784	12,989
TEMAGAMI					
Finlayson Point	37	92	114	7,164	15,772
NORTH BAY					
Antoine	12	30	—	—	—
Marten River	418	1,034	216	11,025	25,890
Restoule	662	1,635	278	8,523	35,409
Samuel de Champlain	2,349	5,805	216	10,360	23,116
Total, 16 Parks	212,977	526,281	2,697	149,648	333,600
ALGONQUIN REGION					
PARRY SOUND					
Grundy Lake	2,554	6,310	521	22,053	58,428
Killbear	1,756	4,340	894	40,791	164,260
Oastler Lake	32	78	140	12,115	31,885
Sturgeon Bay	14	35	82	6,029	16,966
BRACEBRIDGE					
Arrowhead	963	2,379	389	25,541	72,482
Mikisew	131	324	265	9,549	32,401
BANCROFT					
Lake St. Peter	25	62	60	7,519	7,519
Petroglyphs	1,555	3,842	—	—	—
Silent Lake	844	2,085	122	11,602	22,527
ALGONQUIN PARK					
Algonquin	765,345	1,891,206	1,385	84,733	237,427
Driftwood	265	655	80	5,642	11,015
PEMBROKE					
Bonnechere	113	280	113	5,363	18,646
Carson Lake	13	32	45	4,790	4,792
Total, 13 Parks	773,610	1,911,628	4,096	235,727	678,348

Region, District Provincial Park	Hectares	Area Acres	Developed Campsites	Campers	Camper Nights
EASTERN REGION					
OTTAWA					
Fitzroy	185	457	251	12,859	25,957
Rideau River	98	242	186	8,324	17,345
CORNWALL					
Carillon	1,417	3,501	416	12,856	26,885
South Nation	5	13	—	—	—
BROCKVILLE					
Charleston Lake	902	2,230	228	14,014	44,377
LANARK					
Silver Lake	43	107	171	9,439	22,883
Murphys Point	1,240	3,061	174	9,220	16,811
TWEED					
Bon Echo	6,644	16,417	500	26,987	95,482
Sharbot Lake	69	170	185	9,411	25,117
NAPANEE					
Ferris	198	490	165	3,244	6,236
Lake on the Mountain	104	256	—	—	—
North Beach	89	221	—	—	—
Outlet Beach, Sandbanks ...	1,002	2,477	433	33,421	112,674
Presqu'ile	937	2,315	485	27,864	64,722
Total, 15 Parks	12,933	31,957	3,194	167,639	458,489
CENTRAL REGION					
LINDSAY					
Balsam Lake	449	1,109	483	61,518	75,444
Darlington	209	516	359	29,626	57,268
Emily	83	206	299	16,169	48,329
Mark S. Burnham	39	97	—	—	—
Serpent Mounds	56	138	113	12,773	33,700
HURONIA					
Awenda	1,552	3,835	150	9,879	24,327
Bass Lake	39	96	92	15,700	28,191
Devil's Glen	6	14	43	3,157	4,344
Earl Rowe	300	742	555	28,367	72,876
Mara	45	112	100	5,870	15,522
McRae Point	138	340	203	10,818	26,156
Six Mile Lake	94	233	192	17,408	40,942
Springwater	47	117	—	—	—
Wasaga Beach	1,545	3,817	—	—	—
MAPLE					
Sibbald Point	225	556	656	37,400	94,741
CAMBRIDGE					
Bronte Creek	640	1,581	—	—	—
NIAGARA					
Rock Point	98	242	128	13,295	15,068
Total, 17 Parks	5,565	13,751	3,373	261,980	536,908
SOUTHWESTERN REGION					
SIMCOE					
Long Point	141	349	263	22,293	71,362
Selkirk	73	180	145	5,638	15,362
Turkey Point	350	864	473	9,978	23,060

Region, District Provincial Park	Hectares	Area Acres	Developed Campsites	Campers	Camper Nights
AYLMER					
Iroquois Beach	227	560	232	13,211	34,811
John E. Pearce	68	168	—	—	—
Port Bruce	5	13	—	—	—
CHATHAM					
Holiday Beach	92	227	45	5,591	10,444
Ipperwash	56	138	265	17,404	68,621
Peche Island	153	379	—	—	—
Pinery	2,542	6,281	1,265	96,009	256,600
Rondeau	4,816	11,900	226	18,995	61,746
Wheatley	241	596	242	13,408	28,735
WINGHAM					
Point Farms	308	760	200	14,077	41,244
OWEN SOUND					
Craigleath	66	162	170	19,949	44,076
Cyprus Lake	669	1,654	242	24,132	53,016
Fathom Five	9,977	24,653	—	—	—
Inverhuron	289	713	—	—	—
MacGregor Point	1,001	2,473	136	13,756	33,595
Sauble Falls	20	50	152	13,181	32,001
Total, 19 Parks	21,094	52,120	4,056	287,622	774,673
WATERWAY PARKS					
Chapleau-Nemegosenda . . .	8,159	20,160	(Chapleau) . . . . .	.....	.....
Lady Evelyn	2,464	6,088	(Temagami) . . . . .	.....	.....
Mattawa	3,258	8,050	(North Bay) . . . . .	.....	.....
Mississagi	19,814	48,960	(Blind River, Espanola, Chapleau) . . . . .	.....	.....
Winisk	174,000	429,000	(Geraldton) . . . . .	.....	.....
Total, 5 Parks	207,695	512,258	.....	.....	.....
NATURE RESERVE PARKS					
Cavern Lake	189	467	(Thunder Bay)	.....	.....
East Sister Island	53	131	(Chatham) . . . . .	.....	.....
Gibson River	168	415	(Huronia) . . . . .	.....	.....
Limestone Island	450	1,112	(Parry Sound) . . . . .	.....	.....
Matawatchan	65	160	(Pembroke) . . . . .	.....	.....
Montreal River	44	108	(Sault Ste. Marie) . . . . .	.....	.....
Ojibway Prairie	65	161	(Chatham) . . . . .	.....	.....
Ouimet Canyon	777	1,920	(Thunder Bay) . . . . .	.....	.....
Peters Woods	34	83	(Lindsay) . . . . .	.....	.....
Shreiber Channel	13	32	(Thunder Bay) . . . . .	.....	.....
Porphyry Island	107	264	(Thunder Bay) . . . . .	.....	.....
Trillium Woods	10	25	(Aylmer) . . . . .	.....	.....
Waubashene Beaches	34	84	(Huronia) . . . . .	.....	.....
Total, 13 Parks	2,009	4,962	.....	.....	.....
TOTAL, 131 Parks	4,257,266	10,518,947	20,723	1,319,762	3,195,477

101 PROVINCIAL PARK RESERVE AREAS IN 1980

Region, District Reserve Area	Hectares	Area Acres
NORTHWESTERN REGION		
RED LAKE		
Berens Dowling.....	30,845	76,218
Lund Lake	2,851	7,045
Stout Lake	218,192	539,152
Telescope Lake.....	5,962	14,732
Woodland Caribou	360,806	891,551
KENORA		
Pipestone Peninsula	1,429	3,530
Pistol Lake.....	1,629	4,025
FORT FRANCES		
Pow-Wow Grounds.....	700	1,730
Sand Point Island	889	2,197
Total, 9 Areas	623,303	1,540,180
NORTH CENTRAL REGION		
ATIKOKAN		
White Otter Lake.....	24,281	60,000
THUNDER BAY		
Arrow Lake	40	100
Arrow Lake	405	*1,000
Arrowhead Peninsula.....	344	850
Inwood	405	1,000
Kashabowie	2,064	5,100
La Verendrye W.R.....	1,311	3,240
Middle Falls.....	961	2,374
Silver Falls.....	3,561	8,800
NIPIGON		
Cypress River	240	593
Gravel River	324	800
Humboldt Bay	29,542	73,000
Kopka Lake	4,047	10,000
Partridge Lake.....	2,631	6,500
GERALDTON		
Esnagami Lake.....	23,472	58,000
Lukinto Lake	911	2,250
Purgatory Chutes	40	100
TERRACE BAY		
Slate Island	3,963	9,793
Total, 18 Areas	98,542	243,500
NORTHERN REGION		
HEARST		
Nagagami Lake.....	1,481	3,660
KAPUSKASING		
Missinaibi W.R.....	38,046	94,013

* Provincial Park not in operation.

Region, District Reserve Area	Hectares	Area Acres
COCHRANE		
Long Point Peninsula	2,552	6,304
Otter Rapids	197	486
Pierre-Montreuil	17,032	42,088
TIMMINS		
Dana-Jowsey Lakes	2,547	6,294
KIRKLAND LAKE		
McCann	259	640
CHAPLEAU		
Missinaibi Lake	1,481	3,660
The Shoals	6,227	15,387
MOOSONEE		
Kwataboahenan River	94	232
Total, 11 Areas	70,422	174,014
NORTHEASTERN REGION		
WAWA		
Kakakiwibik	23,829	58,881
Pothole	352	870
SAULT STE. MARIE		
Marks Bay	104	258
BLIND RIVER		
Aubrey Falls	6,880	17,000
Mashagami	259	640
Mississagi	39,255	97,000
ESPAÑOLA		
La Cloche	4,969	12,278
Misery Bay	697	1,743
SUDSBURY		
Mashkinonje	940	*2,322
Wanapitae Lake	2,790	6,890
TEMAGAMI		
W. B. Greenwood	9,308	23,000
NORTH BAY		
Restoule	467	1,155
South Bay	1,604	3,963
Total, 14 Areas	91,454	226,000
ALGONQUIN REGION		
BRACEBRIDGE		
Bigwind Lake	1,878	4,638
Chetwynd	85	210
Hardy Lake	602	1,488
Ragged Falls	139	344
MINDEN		
Red Pine Lake	3,173	7,837
BANCROFT		
Kawartha Highlands	1,587	3,921
McKenzie Lake	1,539	3,802
PEMBROKE		
Centennial Lake	3,833	9,468
Madawaska River	1,233	3,044
Round Lake	124	307

* Provincial Park not in operation.

Region, District Reserve Area	Hectares	Area Acres
PARRY SOUND		
Blackstone Harbour	12,086	29,851
Magnetawan W. R.	9,256	23,530
McDonald Bay	578	1,426
O'Donnell Point	786	1,943
Round Lake	11,241	27,764
Shawanaga Basin	1,287	3,179
Total, 16 Areas	49,427	122,752
EASTERN REGION		
BROCKVILLE		
Blue Mountain	726	1,795
LANARK		
Kilmarnock	26	63
Mouth of Tay	64	159
TWEED		
Baudner Property	35	86
NAPANEE		
Casey Point	33	81
Frontenac	5,130	*12,676
Total, 6 Areas	6,014	14,860
CENTRAL REGION		
HURONIA		
Bass Lake	185	457
Boyne Valley (Primrose)	1,073	2,652
Couchiching	44	108
Devil's Glen	55	135
Giant's Tomb	479	1,184
Lavender Falls	202	499
Matchedash	2,509	6,200
Mono Cliffs	618	1,527
Nottawasaga Lookout	219	540
Scott's Falls	484	1,196
MAPLE		
Credit Forks	205	507
Duclos Point	137	338
CAMBRIDGE		
Cranberry Bog	9	20

* Provincial Park not in operation.

Region, District Reserve Area	Hectares	Area Acres
LINDSAY		
Harris Island	75	186
Indian Point	857	2,118
Kendal Recreation Area	349	863
Quackenbush Site	39	97
Scugog Island	168	415
Wolf Island	330	814
NIAGARA		
James N. Allen	113	278
Short Hills	617	1,523
Total, 21 Areas	8,767	21,657
SOUTHWESTERN REGION		
AYLMER		
Kamoka	501	1,237
CHATHAM		
Fish Point	110	273
Lighthouse Point	97	246
OWEN SOUND		
Black Creek	285	704
Cypress Lake	287	709
Hope Bay	517	1,277
Total, 6 Areas	1,797	4,446
TOTAL, 101 Areas	949,726	2,347,409

*37 PROVINCIAL PARK SPECIAL AREAS IN 1980

Region, District Special Area	Hectares	Area Acres
NORTH CENTRAL REGION		
ATIKOKAN		
Warner Lake	302	745
NIPIGON		
Gravel Bay	101	250
TERRACE BAY		
Steel River	1,093	2,700
Total, 3 Areas	1,496	3,695
NORTHERN REGION		
HEARST		
Rogers	611	1,510
Total, 1 Area	611	1,510
ALGONQUIN REGION		
MINDEN		
Buckhorn	385	950
Gull River	27	67
PARRY SOUND		
C.N.R. Line	269	664
Franklin Islands	7	18
Total, 4 Areas	688	1,699
EASTERN REGION		
CORNWALL		
Cornwall Recreation Area	83	204
Total, 1 Area	83	204
CENTRAL REGION		
HURONIA		
Allandale	80	198
Gloucester Pool	36	89
Minesing Swamp	450	1,112
MAPLE		
Cheltenham Property	100	246
Grange Property	142	350
CAMBRIDGE		
Burlington Parkway Property	26	65
Yaremko-Ridley	64	160
Total, 7 Areas	898	2,220

* Any area acquired by the M.N.R. for recreational park purposes other than for use as a Provincial Park.

Region, District Special Area	Hectares	Area Acres
SOUTHWESTERN REGION		
AYLMER		
East-Zorra Trail	24	60
CHATHAM		
Fox Property	7	18
Tremblay Beach	62	154
WINGHAM		
Stinsin Estate	48	119
OWEN SOUND		
Beaver Valley Lowlands	540	1,334
Beaver Valley Ski Area	297	735
Cape Chin	437	1,285
Colpoys Bay	213	523
Dorcas Bay	68	168
Dunks Bay	16	39
Dyer Bay	79	194
Eugenia Lake	4	10
Hoggs Falls	82	204
Johnston Harbour	3,157	7,801
Kolapore Uplands	1,945	4,805
Lions Head Lookout	1	3
Lions Head Recreation Area	494	1,221
Meaford Lookout	404	997
Pretty River Valley	879	2,171
Spring Creek	2,104	5,200
Umbrella Lake	3,530	8,723
Total, 21 Areas	14,391	35,764
TOTAL, 37 Areas	18,167	45,092

OUTDOOR RECREATION GROUP

FISHERIES BRANCH

Room W-2354, Main Office.

Telephone (416) 965-7883.

Branch Director	A. S. Holder	W-2347 7885
Commercial Fisheries Specialist	J. W. Rousom	W-2448 7883
Co-ordinator, Policy Development	F. P. Maher	W-2346 7885
Population Dynamics Section	C. H. Olver, A/Sprv.....	W-2350 7885
Client Services Section	G. R. Whitney, Mgr	W-2349 7885
Co-ordinator, Public Involvement	C. I. Goddard	W-2345 7885
Extension Specialist	A. A. Wainio	W-2353 7885
Data Systems Biologist	W. G. Simpson	W-2446 7883
Data & Information Biologist	L. Greig	W-2443 7883
Economist	N. Bedi	W-2445 7883
Commercial Development Co-ordinator SPOF Policy & Implementation Co-ord.	J. C. Tilt	W-2442 7883
Fish Culture Section	J. A. Cherry	W-2344 7885
Production Biologist	J. M. Byrne, Spvr.....	W-2451 7883
Fish Health Biologist	J. D. Hynes	W-2449 7883
Assessment Biologist	A. Sippel	W-2453 7883
Fish Nutrition Specialist	B. A. Barton	W-2450
Fish Culture Operation Co-ordinator ..	C. Y. Cho	(519) 824-4120-2212
Fish Culture Engineer	C. C. Mack	W-2452 7883
Fish Culture Systems Specialist	A. E. Trizna	W-2455 7883
Environmental Dynamics Section	D. Farquhar	W-2454 7883
Habitat Enhancement Biologist	D. P. Dodge, Spvr.....	W-4422 7887
Habitat Protection Biologist	R. M. Biette	W-4422 7887
Aquatic Habitat Inventory Biologist	J. T. Allin	W-4422 7887
Inventory Data Systems & Lab Spec. . .	G. A. Goodchild	W-4422 7887
Aquatic Habitat Acidification Spec.	G. E. Gale	W-4422 7887
	G. L. Beggs	W-2444 7883

Box 50, Maple, Ontario L0J 1E0.

Telephone (416) 832-2761.

Fisheries Research Section	A. H. Lawrie, Spvr.....	Ext. 251
Age/Growth Studies & Envir. Stress	J. Casselman	251
Brook Trout Studies	J. H. Fraser	251
Community Dynamics	D. O. Evans	251
Limnology	A. M. McCombie	251
Stocks Assessment & Genetics	P. Ihssen	251
Harkness Memorial Lab (winter)	J. A. MacLean	251
Harkness Memorial Lab (summer)	J. A. MacLean	(705) 637-2103
Systems Ecology	B. Shuter	251

RESEARCH STATIONS

Fisheries Research Station	R. A. Ryder	(807) 683-6232
Box 5000, Thunder Bay, Ont. P7C 5G6	P. J. Colby	475-1635
Sault Ste. Marie Research Station	W. H. Kwain	(705) 942-1411
875 Queen St. E., S.S. Marie, Ont. P6A 2B3	B. Henderson	(705) 859-3137
South Baymouth Fisheries Laboratory ..	J. A. Reckahn	3137
R.R. 1, Tehkummah, Ont. P0P 2C0	S. J. Nepszy	(519) 825-4171
Wheatley Fisheries Research Station	J. H. Leach	4171
R.R. 2, Wheatley, Ont. N0P 2P0	W. J. Christie	(613) 476-2400
Glenora Fisheries Research Station	D. A. Hurley	2400
R.R. 4, Picton, Ont. K0K 2T0	Dr. J. A. MacLean	(705) 637-2103
Harkness Lab (Algonquin Park)	Box 110, Whitney, Ont. K0J 2M0	

FISH PLANTINGS — Numbers in 000s of Fish (F) and Eggs (E)
Stocked from Ontario Fish Culture Stations

Species		1976	1977	1978	1979	1980
Bass, Largemouth.....	E	....	36	....	....	....
	F	140	77	112	....	....
Bass, Smallmouth.....	E	....	59	....	....	....
	F	106	184	185	79	65
Maskinonge.....	E	....	....	....	....	....
	F	1,362	949	1,271	1,490	1,120
Salmon, Chinook.....	E	....	....	....	....	....
	F	....	....	393	147	18
Salmon, Coho.....	E	....	....	....	....	....
	F	371	209	201	286	418
Splake.....	E	....	....	377	....	76
	F	672	952	185	800	798
Trout, Aurora.....	E	....	....	....	....	....
	F	8	....	38	21	17
Trout, Brook.....	E	....	....	380	18	....
	F	1,583	1,854	1,078	682	1,260
Trout, Lake.....	E	90	120	120	6	5
	F	2,327	2,088	1,536	1,478	1,928
Trout, Rainbow.....	E	285	350	....	....	....
	F	1,280	1,023	1,057	992	1,347
Walleye.....	E	7,850	7,850	....	13,450	....
	F	10	10	8	10	472
Total		16,093	15,763	6,946	19,461	7,523

COMMERCIAL FISHING LICENCES

Year	Food-Fish Harvesting	Bait-Fish Harvesting	Bait-Fish Dealers	Bait-Fish Preservers	Total
1976	1,086	1,595	1,753	107	4,541
1977	1,056	1,605	1,731	98	4,490
1978	1,048	1,679	1,832	99	4,658
1979	1,093	1,549	1,791	114	4,547
1980	1,029	1,728	1,858	124	4,739

ANGLING LICENCES

Year	Number Sold to Non-Residents
1976.....	627,364
1977.....	630,120
1978.....	654,672
1979.....	673,925
1980.....	628,988

FISH STOCKING from Ontario Provincial Fish Culture Stations
 For the fiscal year ending March 31, 1981

(E — Eggs)

Station	Species	Quantity	Weight (kg)	Weight (lbs)
Codrington	Rainbow Trout	30,050	3,403	7,494
	Brook Trout	59,520	3,908	8,606
Chatsworth	Lake Trout	41,822	951	2,094
	Splake	76,200E		
		480,726	25,952	57,161
Deer Lake	Rainbow Trout	120,164	1,935	4,262
	Lake Trout	184,526	1,178	2,593
	Maskinonge	1,219,898	—	250
Dorion	Brook Trout	149,260	—	7,839
	Lake Trout	515,260	—	25,259
Hill Lake	Brook Trout	242,079	6,916	15,232
	Lake Trout	176,298	11,785	25,958
	Aurora	16,710	5	10
Normandale	Rainbow Trout	1,038,947	23,122	50,928
North Bay	Brook Trout	145,933	11,668	25,700
	Lake Trout	53,742	1,286	2,832
Pembroke	Brook Trout	14,000	98	214
	Lake Trout	24,000	281	618
Ringwood	Coho Salmon	245,408	2,998	6,603
	Chinook Salmon	17,648	12	26
Sandfield	Brook Trout	88,143	3,286	7,175
	Lake Trout	57,120	934	2,040
	Splake	77,860	2,181	4,762
	Smallmouth Bass	65,690	39	85
Skeleton Lake	Rainbow Trout	80,320	7,751	17,072
	Brook Trout	158,800	2,812	6,192
	Lake Trout	98,100	568	1,249
	Splake	211,900	5,022	11,060
Tarentorus	Rainbow Trout	37,500	990	2,179
	Brook Trout	175,113	4,932	10,863
	Lake Trout	562,818	6,083	13,397
White Lake	Brook Trout	188,800	4,052	8,923
	Lake Trout	198,580	1,953	4,300
	Walleye	471,735	114	249
Westport	Rainbow Trout	40,544	1,132	2,493
	Brook Trout	40,555	3,561	8,200
	Lake Trout	82,747	2,483	5,468
Wiarton	Coho Salmon	172,269	94	207

EMPLOYMENT AND INVESTMENT IN COMMERCIAL FISHERY — 1980

Classification		Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron
MEN EMPLOYED	Number	258	652	10	130
FISHING BOATS					
12.2 m and over	Number	2	125	—	31
(40' and over)	kg	23,636	3,319,091	—	570,909
	(Tons)	26	3,651	—	628
	Value \$	28,000	11,899,850	—	2,316,482
6.1 m to 11.9 m	Number	64	35	5	13
(20' to 39')	Value \$	610,205	490,950	38,000	128,500
Under 6.1 m	Number	182	49	4	9
(under 20')	Value \$	214,608	57,649	7,500	6,550
FISHING GEAR					
Gill Nets	Metres	1,191,920	7,711,049	—	898,789
	(Yards)	(1,309,802)	(8,473,680)	—	(987,680)
	Value \$	527,498	4,623,480	—	798,930
Pound Nets	Number	—	28	90	2
	Value \$	—	50,000	55,000	3,000
Trap Nets	Number	91	98	120	120
	Value \$	64,000	170,000	78,000	223,641
Hoop Nets.....	Number	961	166	—	3
	Value \$	350,300	61,550	—	3,000
Seine Nets	Metres	1,948	3,913	956	—
	(Yards)	(2,141)	(4,300)	(1,050)	—
	Value \$	16,825	40,200	3,500	—
Night Lines	Number	38,759	8,700	1,800	500
	Value \$	19,979	7,850	1,200	2,000
Dip Nets	Number	2	5	—	—
	Value \$	10	96	—	—
Trawls	Number	—	302	—	5
	Value \$	—	452,800	—	5,000
Trammel Nets.....	Metres	—	—	—	—
	(Yards)	—	—	—	—
	Value \$	—	—	—	—
SHORE INSTALLATIONS					
Freezers & Ice Houses	Number	30	45	1	20
	Value \$	171,980	3,018,325	4,000	303,500
Piers & Wharves	Number	36	58	1	10
	Value \$	135,815	340,594	2,000	58,300
Net Sheds	Number	99	137	6	29
	Value \$	191,878	1,936,644	58,000	528,000
Miscellaneous	Value \$	4,300	375	—	—
NEW CAPITAL INVESTMENT					
Engines	Value \$	59,932	286,847	—	78,709
Hulls	Value \$	118,642	615,094	—	162,000
Fishing Gear.....	Value \$	103,721	856,318	900	82,669
Wheelhouse Eqmnt. .	Value \$	10,347	223,818	—	64,150
Other Equipment	Value \$	3,492	64,345	1,100	—
TOTAL VALUE		\$2,631,532	\$25,196,785	\$249,200	\$4,764,431

Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
103	60	148	521	82	1,964
20	11	17	7	—	213
328,182	185,455	288,182	93,636	—	4,809,091
361	204	317	103	—	5,290
765,500	232,000	820,500	256,300	—	16,318,632
29	6	32	63	6	253
220,900	12,800	342,089	314,211	15,500	2,173,155
36	21	48	192	43	584
38,400	26,500	75,455	295,310	34,295	756,267
853,899	297,752	628,219	439,621	46,437	12,067,686
(938,350)	(327,200)	(690,350)	(483,100)	(51,030)	(13,261,192)
589,525	160,100	425,266	309,356	27,300	7,461,455
10	15	8	19	—	172
30,500	25,500	14,000	14,000	—	192,000
8	11	7	90	11	556
9,200	9,000	11,200	118,486	10,200	693,727
1	2	1	74	422	1,630
800	800	900	14,744	80,947	513,041
—	—	—	—	712	7,529
—	—	—	—	(782)	(8,273)
—	—	—	—	3,000	63,525
—	—	—	375	3,820	53,954
—	—	—	70	1,845	32,944
5	1	3	7	6	29
36	30	45	3,695	120	4,032
—	—	15	—	—	322
—	—	27,300	—	—	485,100
—	—	—	—	926	926
—	—	—	—	(1,018)	(1,018)
—	—	—	—	1,350	1,350
34	21	39	107	20	317
138,625	139,200	533,195	462,530	39,110	4,810,465
25	11	30	73	6	250
57,450	20,700	57,050	124,739	19,200	815,848
34	17	47	73	15	457
163,450	80,200	189,100	117,289	14,350	3,278,911
—	—	3,200	154,675	3,980	166,530
40,675	13,360	161,516	76,523	12,906	730,468
28,640	7,200	98,101	62,164	4,850	1,096,691
90,375	51,335	91,874	86,838	15,153	1,379,183
14,855	13,071	31,207	5,110	—	362,558
—	—	3,000	73,062	500	145,499
\$2,188,931	\$791,796	\$2,884,998	\$2,489,102	\$284,606	\$41,481,381

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest — January to December 1980. (Shown in Kilograms and Dollar Value)

Species	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
Bowfin	54	6,918	2,124	—	—
Bullhead	165,244	16,821	996	140	626
Burbot (Ling)	—	—	—	—	9,837
Carp	—	10,162	14,103	15,060	7,095
Catfish	10,731	39,361	6,570	24,456	30
Chub (Deepwater Cisco)	—	—	—	101,279	77,064
Crappie	8,205	14,315	—	—	—
Eel	164,031	57	—	—	—
Lake Herring (Cisco)	5,269	—	—	2,563	19,661
Lake Trout	5	359	—	27,458	385
Lake Whitefish	4,100	851	—	523,958	88,215
Freshwater Drum	25	151,308	4,721	21,671	—
Northern Pike	19,857	9,581	1,062	116	2,929
Pacific Salmon	—	9,703	—	6,408	26
Rock Bass	6,141	9,191	810	90	1,234
Round Whitefish	26	—	—	5,607	14,922
Sauger	1	113	—	—	—
Shad	189	360	—	1,436	—
Smelt	22,224	11,296,440	—	305	—
Splake	—	—	—	32	36,630
Sturgeon	366	279	—	1,669	644
Sucker (Mullet)	4,880	30,623	4,498	18,352	40,784
Sunfish	72,170	17,052	—	—	—
White Bass	3,293	887,667	1,726	4,482	2,940
White Perch	54,956	—	—	—	—
Yellow Perch	265,463	5,674,037	172	201,139	36,402
Yellow Pickerel	56,933	800,152	—	123,854	11,262
Animal Food	27,050	514,151	—	3,308	10,409
Total Landings (Kg)	891,213	19,489,501	36,782	1,083,383	361,095
Total Landed Value	\$1,147,054	\$14,024,375	\$23,123	\$2,368,984	\$505,434

*Average Prices Used

**Rock Bass & Crappie Combined.

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest — January to December 1980. (Shown in Kilograms and Dollar Value)

North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings (Kg.)	Total Value (\$)
—	—	—	35	9,131	1,334
435	—	3,315	53,193	240,770	197,658
1,651	4,898	91,028	268	107,682	21,304
3,217	—	—	71,042	120,679	62,487
—	—	—	3,685	84,833	95,251
645	239,878	27,430	—	446,296	684,092
—	—	—	4,473	26,993	31,761
7	—	—	3,548	167,643	454,645
1,231	1,281,615	153,874	—	1,464,213	1,383,228
5,681	212,089	32,069	—	278,046	499,155
73,467	225,474	765,369	—	1,681,434	2,819,422
—	—	187	824	178,736	29,524
5,808	1,188	225,971	153	266,665	311,640
52	—	—	1,073	17,262	31,746
439	—	**30,008	—	47,913	94,273
1,274	53,528	—	—	75,357	62,435
—	—	16,752	—	16,866	37,240
—	—	—	—	1,985	556
—	16,632	—	171	11,335,772	2,498,886
2,280	—	—	—	38,942	85,034
4,249	—	12,100	2,227	21,534	104,015
34,461	77,312	336,996	15,375	563,281	151,368
—	—	—	28,769	117,991	93,942
2,720	—	631	437	903,896	937,989
—	—	—	2,151	57,107	36,374
7,340	37,942	2,936	10,742	6,236,173	8,709,114
13,133	348	336,937	—	1,342,619	4,192,795
—	—	44,536	35,958	635,412	16,994
158,090	2,150,904	2,080,139	234,124	26,485,231	
\$279,477	\$2,605,932	\$2,532,623	\$157,260		\$23,644,262
*					

ONTARIO COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest — January to December 1980. (Shown in Pounds and Dollar Value)

Species	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
Bowfin	120	15,374	4,720	—	—
Bullhead	367,209	37,379	2,213	312	1,390
Burbot (Ling)	—	—	—	—	21,860
Carp	—	22,582	31,340	33,466	15,766
Catfish	23,847	87,469	14,599	54,347	67
Chub (Deepwater Cisco)	—	—	—	225,065	171,254
Crappie	18,233	31,810	—	—	—
Eel	364,514	127	—	—	2
Lake Herring (Cisco)	11,709	—	—	5,696	43,692
Lake Trout	11	798	—	61,017	856
Lake Whitefish	9,111	1,892	—	1,164,350	196,034
Freshwater Drum	56	336,240	10,491	48,158	—
Northern Pike	44,126	21,292	2,361	257	6,509
Pacific Salmon	—	21,562	—	14,240	58
Rock Bass	13,647	20,425	1,801	199	2,742
Round Whitefish	57	—	—	12,461	33,159
Sauger	3	252	—	—	—
Shad	420	800	—	3,190	—
Smelt	49,387	25,103,200	—	677	—
Splake	—	—	—	71	81,399
Sturgeon	813	619	—	3,709	1,431
Sucker (Mullet)	10,844	68,051	9,996	40,782	90,632
Sunfish	160,738	37,893	—	—	—
White Bass	7,318	1,972,594	3,836	9,959	6,534
White Perch	122,124	—	—	—	—
Yellow Perch	589,918	12,608,971	382	446,976	80,893
Yellow Pickerel	126,517	1,778,116	—	275,231	25,026
Animal Food	60,110	1,142,558	—	7,350	23,130
Total Landings (lbs)	1,980,832	43,310,004	81,739	2,407,513	802,434
Total Landed Value	\$1,147,054	\$14,024,375	\$23,123	\$2,368,984	\$505,434

* Average Prices Used

** Rock Bass & Crappie Combined.

ONTARIO COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest — January to December 1980. (Shown in Pounds and Dollar Value)

North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings (lbs.)	Total Value (\$)
—	—	—	78	20,292	1,334
966	—	7,367	118,206	535,042	197,658
3,669	10,883	202,284	595	239,291	21,304
7,149	—	—	157,871	268,174	62,487
—	—	—	8,188	188,517	95,251
1,434	533,062	60,955	—	991,770	684,092
—	—	—	9,939	59,982	31,761
16	—	—	7,884	372,543	454,645
2,736	2,848,033	341,943	—	3,253,809	1,383,228
12,624	471,308	71,265	—	617,879	499,155
163,260	501,054	1,700,820	—	3,736,521	2,819,422
—	—	415	1,830	397,190	29,524
12,906	2,639	502,158	—	592,248	311,640
116	—	—	340	36,316	31,746
975	—	**66,684	2,384	108,857	94,273
2,830	118,952	—	—	167,459	62,435
—	—	37,226	—	37,481	37,240
—	—	—	—	4,410	556
—	36,959	—	380	25,190,603	2,498,886
5,067	—	—	—	86,537	85,034
9,443	—	26,888	4,949	47,852	104,015
76,579	171,805	757,294	34,166	1,260,149	151,368
—	—	—	63,932	262,563	93,942
6,045	—	1,403	971	2,008,660	937,989
—	—	—	4,779	126,903	36,374
16,312	84,315	6,524	23,869	13,858,160	8,709,114
29,185	773	748,749	—	2,983,597	4,192,795
—	—	98,968	79,906	1,412,022	16,994
351,312	4,779,783	4,630,943	520,267	58,864,827	
\$279,477	\$2,605,932	\$2,532,623	\$157,260		\$23,644,262
	*	*			

ONTARIO COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Species	1976	1977	1978	1979	1980	Value 1980
Bowfin	18	18	16	14	9	\$ 1
Bullhead	263	281	222	236	241	198
Burbot (Ling)	132	208	173	129	108	21
Carp	291	216	113	180	121	62
Catfish	61	65	86	96	85	95
Chub (Deepwater Cisco)	725	602	558	498	446	684
Pacific Salmon . . . . .	. . . . .	2	3	21	17	32
Eel	157	189	232	226	168	455
Freshwater Drum	171	184	166	164	179	30
Goldeye . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
Lake Herring (Cisco)	652	863	929	990	1,464	1,383
Lake Trout	104	112	165	165	278	499
Lake Whitefish	1,148	1,445	1,692	1,289	1,681	2,819
Northern Pike	272	312	344	312	267	312
Rock Bass and Crappie	99	86	80	99	75	126
Round Whitefish	62	40	40	46	75	62
Sauger	13	9	13	16	17	37
Smelt	8,210	10,593	12,300	10,892	11,336	2,499
Splake . . . . .	. . . . .	13	12	9	39	85
Sturgeon	16	17	13	15	21	104
Sucker (Mullet)	606	639	536	630	563	151
Sunfish	176	128	106	127	118	94
White Bass	509	454	756	763	904	938
White Perch	337	198	229	49	57	36
Yellow Perch	2,754	4,367	4,505	5,873	6,236	8,709
Yellow Pickerel	689	1,134	846	1,046	1,343	4,193
Animal Food	1,032	1,168	1,076	1,010	637	19
Total Landings	18,497	23,343	25,211	24,895	26,485	
Total Landed Value	\$12,513	\$14,555	\$17,161	\$25,874		\$23,644

ONTARIO COMMERCIAL FISH HARVEST — by Species in 000s lbs. and \$000s

Species	1976	1977	1978	1979	1980	Value 1980
Bowfin	39	41	37	31	20	\$ 1
Bullhead	584	625	494	525	535	198
Burbot (Ling)	293	462	384	286	239	21
Carp	646	480	251	399	268	62
Catfish	136	144	192	214	189	95
Chub (Deepwater Cisco)	1,612	1,338	1,240	1,106	992	684
Pacific Salmon	78	5	6	48	36	32
Crappie		26	48	90	60	32
Eel	348	420	514	502	373	455
Freshwater Drum	380	408	369	365	397	30
Goldeye		2				
Lake Herring (Cisco)	1,449	1,917	2,065	2,200	3,254	1,383
Lake Trout	230	249	367	367	618	499
Lake Whitefish	2,552	3,211	3,762	2,864	3,737	2,819
Northern Pike	604	693	764	692	592	312
Rock Bass	221	165	130	130	109	94
Round Whitefish	138	88	89	101	167	62
Sauger	28	21	29	35	37	37
Smelt	18,245	23,540	27,332	24,204	25,191	2,499
Splake		29	27	20	87	85
Sturgeon	35	38	30	32	48	104
Sucker (Mullet)	1,347	1,420	1,191	1,401	1,260	151
Sunfish	391	284	235	284	263	94
White Bass	1,131	1,008	1,680	1,695	2,009	938
White Perch	748	439	508	109	127	36
Yellow Perch	6,119	9,705	10,012	13,053	13,858	8,709
Yellow Pickerel	1,531	2,520	1,880	2,324	2,984	4,193
Animal Food	2,220	2,595	2,386	2,247	1,415	19
Total Landings	41,105	51,873	56,024	55,324	58,865	
Total Landed Value	\$12,513	\$14,555	\$17,161	\$25,874		\$23,644

ONTARIO COMMERCIAL FISH HARVEST — by Waters in 000s kg and \$000s

Year	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay	North Channel	Lake Superior	Northern Inland	Southern Inland	Total	Total \$
1976	1,311	11,570	....	998	487	263	1,751	1,940	177	18,497	12,513
1977	1,107	16,134	....	1,067	456	226	1,738	2,446	169	23,343	14,555
1978	1,112	18,072	....	1,179	349	172	1,834	2,352	140	25,210	17,161
1979	878	18,473	....	858	331	210	1,621	2,217	307	24,895	25,874
1980	891	19,490	37	1,083	361	158	2,151	2,080	234	26,485	23,644

by Waters in 000s lbs and \$000s

1976	2,914	25,711	....	2,217	1,082	585	3,891	4,310	395	41,105	12,513
1977	2,461	35,854	....	2,371	1,013	502	3,863	5,436	373	51,873	14,555
1978	2,471	40,160	....	2,620	775	385	4,075	5,226	312	56,024	17,161
1979	1,950	41,051	....	1,908	736	467	3,601	4,928	683	55,324	25,874
1980	1,981	43,310	82	2,408	802	351	4,780	4,631	520	58,865	23,644

LAKE ONTARIO COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Eel	Lake Herring	Smelt	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total \$
1976	158	193	154	7	41	102	328	258	70	1,311	1,003
1977	183	107	186	5	23	77	191	263	72	1,107	761
1978	164	9	229	6	27	67	226	318	66	1,112	1,138
1979	163	4	222	13	26	70	46	253	81	878	1,478
1980	176	....	164	5	22	72	55	265	132	891	1,147

by Species in 000s lbs and \$000s

1976	351	429	342	15	91	226	729	574	157	2,914	1,003
1977	407	237	414	12	51	171	425	584	160	2,461	761
1978	365	9	508	12	60	150	501	707	159	2,471	1,138
1979	361	8	492	30	58	156	103	563	179	1,950	1,478
1980	391	....	365	12	49	161	122	590	291	1,981	1,147

LAKE ERIE COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Smelt	White Bass	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1976	80	24	153	7,736	504	2,090	114	869	11,570	5,990
1977	69	42	180	10,347	444	3,830	238	984	16,134	7,737
1978	64	29	158	11,974	742	3,963	265	877	18,072	9,884
1979	54	15	122	10,831	756	5,423	538	734	18,473	17,592
1980	56	10	151	11,296	888	5,674	800	615	19,490	14,024

by Species in 000s lbs and \$000s

1976	177	53	341	17,190	1,120	4,646	254	1,930	25,711	5,990
1977	153	93	400	22,994	986	8,510	529	2,189	35,854	7,737
1978	142	64	351	26,609	1,649	8,806	589	1,950	40,160	9,884
1979	120	32	272	24,068	1,679	12,051	1,195	1,634	41,051	17,592
1980	125	23	336	25,103	1,973	12,609	1,778	1,363	43,310	14,024

LAKE HURON COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1976	20	48	....	401	12	65	181	68	205	998	1,408
1977	9	39	....	560	5	41	104	123	186	1,067	1,655
1978	15	70	4	641	9	49	124	77	190	1,179	1,960
1979	17	67	3	375	5	30	49	95	217	858	1,730
1980	15	101	3	524	6	18	201	124	91	1,083	2,369

by Species in 000s lbs and \$000s

1976	42	106	2	890	26	144	402	150	455	2,217	1,408
1977	19	86	1	1,244	12	91	231	274	413	2,371	1,655
1978	33	156	8	1,425	21	108	275	171	423	2,620	1,960
1979	38	149	6	833	12	67	108	210	485	1,908	1,730
1980	33	225	6	1,164	12	41	447	275	205	2,408	2,369

GEORGIAN BAY COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1976	7	279	9	39	15	14	66	38	20	487	807
1977	8	172	18	72	15	32	64	52	23	456	685
1978	6	151	16	71	13	19	35	23	15	349	520
1979	4	122	21	74	19	13	45	17	16	331	641
1980	7	77	20	88	15	41	36	11	66	361	505

by Species in 000s lbs and \$000s

Year	Smelt	Lake Whitefish	Northern Pike	Round Whitefish	Sturgeon	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1976	42	13	20	2	60	73	11	42	263	267
1977	85	11	4	2	29	27	9	59	226	211
1978	88	5	3	2	23	13	6	32	172	196
1979	63	9	3	2	36	29	20	48	210	280
1980	73	6	1	4	34	7	13	20	158	279

by Species in 000s lbs and \$000s

NORTH CHANNEL COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Smelt	Lake Whitefish	Northern Pike	Round Whitefish	Sturgeon	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1976	94	30	45	4	133	163	24	92	585	267
1977	189	24	8	4	65	59	19	134	502	211
1978	1	197	11	6	4	52	29	14	71	385	196
1979	139	21	7	4	80	64	43	109	467	280
1980	163	13	3	9	77	16	29	41	351	279

by Species in 000s lbs and \$000s

LAKE SUPERIOR COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Lake Herring	Lake Trout	Lake Whitefish	Smelt	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1976	594	76	117	427	75	64	32	1,751	1,247	
1977	793	91	109	216	64	66	53	1,738	1,172	
1978	854	128	151	294	42	41	30	1,834	1,307	
1979	887	111	159	34	75	47	37	1,621	1,723	
1980	1,282	212	225	17	77	38	60	2,151	2,606	

by Species in 000s lbs and \$000s

1976	813	1,320	170	261	948	166	143	1	69	3,891
1977	765	-1,762	203	243	479	142	146	4	119	3,863
1978	652	1,897	285	334	654	92	90	1	70	4,075
1979	601	1,972	247	352	76	166	105	...	82	3,601
1980	533	2,848	471	501	37	172	84	1	133	4,780

NORTHERN INLAND WATERS COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Burbot	Chub	Lake Herring	Lake Trout	Lake Whitefish	Northern Pike	Sucker (Mullet)	Yellow Pickerel	Other Species	Total	Total \$
1976	117	32	31	19	547	230	374	457	133	1,940	1,667
1977	176	45	41	16	612	256	453	709	138	2,446	2,217
1978	164	43	46	20	737	298	385	467	192	2,352	2,053
1979	122	38	63	34	616	266	446	353	279	2,217	2,228
1980	91	27	154	32	765	226	337	337	111	2,080	2,533

by Species in 000s lbs and \$000s

1976	259	72	68	42	1,216	512	832	1,016	293	4,310	1,667
1977	392	101	91	36	1,361	568	1,006	1,575	306	5,436	2,217
1978	364	95	103	45	1,638	663	856	1,038	424	5,226	2,053
1979	270	84	139	75	1,370	590	992	784	624	4,928	2,228
1980	202	61	342	71	1,701	502	757	749	246	4,631	2,533

SOUTHERN INLAND WATERS COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Lake Whitefish	Rock Bass & Crappie	Sucker (Mullet)	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total \$
1976	59	44	...	8	4	30	9	18	9	181	125
1977	58	47	...	5	6	18	6	11	16	167	117
1978	41	58	...	4	1	15	3	6	12	140	103
1979	58	138	...	11	9	31	3	18	39	307	203
1980	57	71	...	4	15	29	2	11	45	234	157

by Species in 000s lbs and \$000s

1976	130	98	...	15	9	66	19	39	19	395	125
1977	129	104	...	11	14	40	14	25	36	373	117
1978	92	130	...	9	2	34	6	13	26	312	103
1979	129	306	...	24	19	69	7	41	88	683	203
1980	126	158	...	10	34	64	5	24	99	520	157

EMPLOYMENT AND INVESTMENT IN ONTARIO COMMERCIAL FISHERY

Year	Boats 40' and Over	Boats Under 40'	Gill Nets m 000s	Pound Nets yds 000s	Trap Nets	Hoop Nets	Seine Nets m 00s	Freezers and Ice Houses	Wharves and Piers	Net Sheds	New Investment \$000s	Total Value \$000s
1976	2,171	207	895	9,927	10,856	71	460	1,523	75	82	327	257
1977	2,213	209	946	10,191	11,145	120	504	1,532	69	75	303	278
1978	2,231	206	1,017	11,145	12,189	141	473	2,459	73	80	329	262
1979	1,997	212	913	10,869	11,847	80	476	1,497	62	67	309	263
1980	1,964	213	837	12,068	13,261	172	556	1,630	75	83	317	250

LANDS AND WATERS GROUP

Room W-6626, Main Office. Telephone (416) 965-6045.

Executive Co-ordinator	H. A. Clarke	W-6626 . . . 6045
Secretary	Ms. H. Cobden	W-6623 . . . 1075
Administration	J. Botterill	W-6613 . . . 2724

LAND MANAGEMENT BRANCH

Room W-6450, Main Office. Telephone (416) 965-1316.

Branch Director	E. F. Anderson	W-6450 . . . 1316
Public Lands Section	J. Morton, Spvr.	W-6449 . . . 2741
Public Lands Management	L. E. Fleguel	W-6448 . . . 2743
Disposition	W. P. Small	W-6445 . . . 4507
Land Management Planning	N. C. Gordon	W-6440 . . . 2742
Mining Lands Section	J. C. Smith, Supervisor ..	W-6451 . . . 1380
Mining Lands Administrator	F. W. Matthews	W-6452 . . . 6918
Eastern Ontario Mining Recorder	R. M. Charnesky	W-1522 . . . 1322
Eastern Ontario Mining Claims Inspector	D. H. Leaper	(705) 743-6489

31 Springbrook Drive, Kawartha Heights, Peterborough, K9J 1L3

Lands Acquisition Section	V. A. Leonard, Spvr.	W-6228 . . . 2738
Real Estate Officer —		
Land Acquisition	J. Paige	W-6228 . . . 2738
Real Estate Officer —		
Appraisals	J. Hogan	W-6228 . . . 2738
Property Management	L. Hall	W-6628 . . . 2738
Titles Section	W. L. Good, Spvr.	W-6621 . . . 1319
Document Officer	C. D. Egerton	W-6502 . . . 1319
Acreage Tax Administrator	Mrs. C. D. Holland	W-6621 . . . 1319
Records Officer	R. E. Dixon	W-6501 . . . 1319
Land Records Manager	J. G. Sherman	W-6501 . . . 1319
Resource Access	J. M. Small	W-5606 . . . 5735

LANDS ACQUIRED BY CROWN — Areas in hectares and acres in years ending March 31

Year	Provincial Tax Forfeitures ha	Cancelation of Sales ha	Purchased or Otherwise Acquired ha	Total ha	Acreage Tax Forefeitures ha	Ac
1977	6	16	1,121	1,128	2,787	10,117
1978	1	2	4,995	4,999	12,354	10,147
1979	..	..	2,075	2,076	5,129	22,663
1980	0.4	1	2,480	6,128	1	15,783
1981	1.20	3	703	1,737	1.36	3,42
					3,600	9,000

USE OF ACQUIRED LANDS — Areas in hectares and acres in years ending March 31

Year	Provincial Parks ha	Access Points ha	Wilderness Areas ha	Sport Fisheries ha	Wildlife Management ha	Timber Management ha	District Imprvmts ha	Total ha	Acreage Ac
1976	2,108	5,209	12	29	35	86	6	163	403
1977	637	1,573	141	348	..	81	200	248	613
1978	548	1,353	4	10	..	..	..	111	275
1979	1,994	4,927	..	..	..	..	..	..	4,333
1980	548	1,353	..	..	..	..	..	..	10,706
								5	7
								100	100
								247	247
							
								701	701

PUBLIC LAND — Areas in hectares and acres in years ending March 31

Year	No.	Patents ha	Ac	No.	Leases ha	Ac	No.	Licences of Occupation ha	Ac
1977	256	2,248	5,554	197	593	1,465	141	10,220	25,255
1978	189	1,070	2,643	311	291	719	165	2,909	7,188
1979	126	523	1,293	63	99	245	79	3,580	8,847
1980	578	1,216	3,005	201	198	488	135	3,407	8,419
1981	890	1,093	2,702	162	276	682	100	3,066	7,576

MINING LANDS — Areas in hectares and acres in years ending March 31

Year	Patents		Renewals		Leases				
	No.	ha	Ac	No.	ha	Ac	No.	ha	Ac
1977	221	3,130	7,735	141	19,537	48,278
1978	131	2,337	5,775	92	15,344	37,915
1979	137	2,049	5,062	53	3,923	9,695
1980	185	5,327	13,163	94	11,185	27,639
1981	141	2,302	5,689	60	7,704	19,037

Year	Surface Rights			Licences of Occupation			Quit Claim Deeds and Regrants		
	No.	ha	Ac	No.	ha	Ac	No.	ha	Ac
1977	4	196	484	3	8,713	21,530	20	463,770	1,146,000
1978	1	37	92	5	803,827	1,986,300	119	3,349	8,275
1979	1	37	92	2	27,694	69,100	142	3,764	9,300
1980	2	90	222	1	16	39	297	7,538	18,626
1981	...	...	...	5	147,191	363,722	38	624	1,543

PROSPECTING ACTIVITIES — in years ending March 31

Year	Mining Claims		In Good Standing	Assessment Work (Days)	Quarry Permits Issued	Miners Licences	
	Recorded	Cancelled				Issued	Renewed
1977	21,046	21,108	49,099	672,386	789	1,170	2,418
1978	14,747	20,786	41,548	644,811	1,087	943	2,000
1979	13,041	16,444	37,669	752,155	1,178	991	1,723
1980	16,875	10,952	36,092	437,619	1,301	1,347	1,854
1981	36,535	11,279	72,809	972,469	1,188	2,130	2,660

MNR REGULAR ROADS PROGRAM*

Region	No. of Kms Con./Recon.	Expenditures (\$000's)	No. of Kms Maintained	Expenditures (\$000's)
NORTHERN ONTARIO				
Northwestern	31.6	959.0	945.2	424.0
North Central	56.0	1,003.0	1,755.0	650.0
Northern	105.6	1,945.0	1,920.0	720.0
Northeastern	88.2	1,004.1	2,246.6	536.5
Sub Totals	281.4	\$4,911.2	6,866.8	\$2,330.5
SOUTHERN ONTARIO				
Algonquin	53.8	421.5	1,119.7	457.2
Eastern	25.0	195.0	550.0	165.0
Central	11.2	34.7	185.2	82.5
Southwestern	—	—	236.3	39.9
Sub Totals	90.0	\$651.2	2,091.2	\$744.6
PROVINCIAL TOTALS	371.4	\$5,562.4	8,958.0	\$3,075.1

* Program includes: Recreational Access, Forest Access, Cottage Access, Ministry Service, Public Transport & Residential Subdivision Roads.

1980-81 NORTHERN ONTARIO RESOURCES TRANSPORTATION COMMITTEE — DIRECT PROGRAM (MNR)

Region	No. of Kms Con./Recon.	Expendi- tures (\$000's)	No. of Kms Maintained	Expendi- tures (\$000's)	No. of Kms Winter Road. Mtd.	Expendi- tures (\$000's)
Northwestern	116.2	1,245.0	104.0	121.0	121.6	93.0
North Central	10.5	475.0	57.0	18.5	—	—
Northern	21.6	1,049.0	—	—	222.0	70.5
Northeastern	—	—	22.4	14.0	—	—
TOTAL	148.3	\$2,769.0	183.4	\$153.5	343.6	\$163.5

1980/81 NORTHERN ONTARIO RESOURCES TRANSPORTATION COMMITTEE—INDIRECT PROGRAM (COMPANY)

Northwestern	8.8	175.5
North Central	21.8	87.8
Northern	—	—
Northeastern	—	—
TOTAL	30.6	263.3

1980-81 FOREST MANAGEMENT SUBSIDIARY AGREEMENT PROGRAM*

CROWN PROJECTS

Region	No. of Kms Constructed	No. of Bridges	Expenditures (\$000's)
Northwestern	—	—	—
North Central	16.0	1	130.6
Northern	11.2	—	1,862.9
Northeastern	0.5	1	34.2
TOTAL	27.7	2	\$2,027.7

COMPANY PROJECTS

Region	No. of Kms Constructed	No. of Bridges	Expenditures (\$000's)
Northwestern	—	—	—
North Central	89.4	2	2,257.9
Northern	12.7	—	95.3
Northeastern	—	2	219.4
TOTAL	102.1	4	\$2,572.6
TOTAL PROGRAM	129.8	6	\$4,600.3

* F.M.S.A. Program is co-funded by the Federal & Provincial Governments.

1980-81 FOREST MANAGEMENT AGREEMENT PROGRAM*

Region	No. of Kms Con./Recon.	Expenditures (\$000's)	No. of Kms Maintained	Expenditures (\$000's)
Northwestern	22.2	230.8	22.2	7.4
North Central	—	—	—	—
Northern	138.4	2,010.7	42.6	14.3
Northeastern	6.0	149.6	6.0	2.0
TOTAL	166.6	\$2,391.1	70.8	\$23.7

* F.M.A. Program is funded in accordance with agreements between MNR and forest companies.

RESOURCE ACCESS PROGRAM SUMMARY

MNR ROAD & BRIDGE CONSTRUCTION & MAINTENANCE

Crown	Regular Program	N.O.R.T. Program	F.M.S.A. Program	F.M.A. Program	Totals
Kms of Road					
Con./Recon.	371.4	148.3	27.7	—	547.4
Expenditures	\$5,562.4	\$2,769.0	2 Bridges	—	2 Bridges
Expenditures					
Expenditures	\$2,027.7			—	\$10,359.1
Kms of Road					
Maintained	8,958.0	183.4	—	—	9,141.4
Expenditures	\$3,075.1	\$153.5	—	—	\$3,228.6
Kms of Winter					
Road Maintained	—	343.6	—	—	343.6
Expenditures	—	\$163.5	—	—	\$163.5

ROADS & BRIDGES CONSTRUCTED & MAINTAINED BY COMPANIES UNDER AGREEMENT

Company	N.O.R.T. Program	F.M.S.A. Program	F.M.A. Program	Totals
Kms of Road				
Constructed	30.6	102.1	166.6	299.3
Expenditures	\$263.3	4 Bridges	\$2,391.1	4 Bridges
Kms of Road				
Maintained	—	—	70.8	70.8
Expenditures	—	—	\$23.7	\$23.7

LANDS AND WATERS GROUP

SURVEYS AND MAPPING BRANCH

Room W-6602, Main Office. Telephone (416) 965-6225.

Branch Director, Surveyor General	Robert G. Code	W-6602 6225
Surveying Services, General Manager	S. B. Panting	W-6604 4538
Surveys Manager	M. Berman	W-6643 2714
Crown Surveys and Examination	J. E. Hietala	W-6644 2714
Survey Research, Descriptions	J. P. Campbell	W-6641 2741
Control Survey Agreements Officer	D. E. Norris	W-6641 2714
Survey Records Information	D. E. Jeanes	W-6645 7085
Geographical Referencing		
Co-ordinator	J. H. Kerr	W-6601 4538
Mathematical Adjustments, Head.	Z. Gulamhusein	W-5444 4538
Mapping Services General Manager	C. T. Osborne	W-2624 4941
Cartographic Services Manager	F. W. Dawson	W-2622 4743
Drafting Services Manager	W. J. Clark	W-6521 7108
Nomenclature Services Manager	M. B. Smart	W-2542 6515
Basic Mapping Manager	B. Jackson	W-2623 1208
Chief Contract Monitor	R. Audas	W-2641 0293
Ontario Centre for Remote Sensing		
880 Bay Street, Toronto, Ontario M5S 1Z8		
Associate Director	V. Zsilinszky	8411
Chief Scientist	S. Pala	8411
Senior Scientist	A. Boissonneau	8411
Senior Scientist	A. Jano	8411
Staff Scientist	R. Mussakowski	8411
Staff Scientist	T. Ellis	8411
Staff Scientist	J. Watts	8411
Thermography Specialist	I. Ross	8411
Research Officer, Engineering	(vacant)	8411
Senior Remote Sensing		
Technician	J. Narraway	8411
Supervisor of Airborne Program	D. Bates	8411
Airborne Program Specialist	B. Fitzpatrick	8411
Photo Research Lab Supervisor	(vacant)	8411



MAPPING SERVICES

ONTARIO BASIC MAPPING

1:20 000 , 1:10 000 scales



Completed.



In progress.



To be mapped.

1:2 000 scale

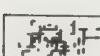
89 Communities completed .

35 Communities in progress .

SURVEYING SERVICES



Area of original
township surveys .



Township boundaries
resurveyed / restored .

8152 kms completed .



LANDS AND WATERS GROUP

OFFICE OF INDIAN RESOURCE POLICY

Room W-6625, Main Office. Telephone (416) 965-6045.

Branch Director	E. G. Wilson	W-6625 . . . 6045
Secretary	C. A. Ritchie	W-6623 . . . 6045
Indian Resource Policy Adviser	P. R. Wyatt	W-6627 . . . 6045
Senior Indian Land Claims Researcher ..	D. T. McNab	W-5644 . . . 1271
Indian Land Claims Researcher	L. G. Ugarenko	W-5643 . . . 1271
Indian Land Claims Researcher	A. Ireland-Smith	W-5642 . . . 1271
Clerk Steno	P. Williams	W-5641 . . . 1271

LANDS AND WATERS GROUP

LAND USE CO-ORDINATION BRANCH

Room W-3440, Main Office. Telephone (416) 965-2899.

Branch Director	R. A. Riley	W-3440 . . . 2899
Land Use Planning Section	M. S. Millar, Spvr.	W-3440 . . . 2899
Plan Input and Review Specialist	J. C. Slot	W-3440 . . . 2899
Environmental Planner	R. D. Laprairie	W-3440 . . . 5344
Policy and Special Projects		
Section	E. M. Cressman, Spvr.	W-3440 . . . 2899
Project Planner	J. R. M. Williams	W-3440 . . . 2899
Policy & Planning Officer	R. P. Milligan	W-3440 . . . 2899
Resource Economist	Dr. P. L. M. Warwick	W-3440 . . . 5344

PLANS REVIEWED — in years ending March 31

Year	Specific Development Plans			Official Plans Amendments
	Subdivision	Severance	Other	Zoning By-Laws
1977	983	3,839	1,053	818
1978	1,614	4,558	566	986
1979	1,109	5,320	929	1,166
1980	1,140	6,747	1,519	1,831
1981	646	4,631	533	2,696

**PLAN INPUTS AND
SPECIAL LAND USE PROJECTS —** in years ending March 31

Year	Plan Inputs	Special Land Use Projects (ongoing)	Environmental Assessments
1977	165	23	.....
1978	181	37	.....
1979	170	35	.....
1980	172	88	109
1981	351	53	157

LANDS AND WATERS GROUP

CONSERVATION AUTHORITIES AND WATER MANAGEMENT BRANCH

Section 6, 5th Floor, Main Office. Telephone (416) 965-6285.

Branch Director	M. Garrett	W-5628 . . . 6285
Asst. Director, Policy & Planning	J. S. Anderson	W-5626 . . . 6285
Sprv. Water & Related Land Mgmt.	G. S. Sardesai	W-5633 . . . 6275
Sprv. Land Mgmt. & Program Eval.	R. D. Hunter	W-5627 . . . 7694
Policy Analyst	(vacant)	W-5623 . . . 6281
Head, Water Basin Planning	S. A. Mathewson	W-5630 . . . 6275
Head, Cons. & Rec. Land Mgmt. Prog.	R. J. Dickie	W-5625 . . . 1573
Head, Financial Services	(vacant)	W-5627 . . . 7694
Library	Miss A. Perrigo	W-5611 . . . 4481
Asst. Director, Services	T. M. Kurtz	W-5629 . . . 6285
Sprv. Streamflow Forecast Centre	P. N. Gryniewski	W-5604 . . . 6292
Flood Emergency Co-ordinator	L. J. Balogh	W-5632 . . . 6277
Sprv. Models & Consultative Serv.	R. B Chang	W-5622 . . . 6295
Head, Model Development	J. Y. Ding	W-5634 . . . 6220
Head, Coastal Zone Management	D. L. Strelchuk	W-5648 . . . 1271
Head, Consultative Services	R. M. Odell	W-5645 . . . 1271
Sprv. Admin. Support Staff	Mrs. D. Green	W-5620 . . . 6270
Youth Programs Co-ordinator	S. E. Court	W-5635 . . . 1799

**GRANTS TO CONSERVATION AUTHORITIES
UNDER THE CONSERVATION AUTHORITIES ACT —** in years ending March 31

Year	Administration	Water and Related Land Mgmt	Conservation and Recreation Land Mgmt	Lake Ontario Waterfront	Total
	\$	\$	\$	\$	\$
1978*	3,984,064	16,713,608	4,289,982	2,495,641	27,483,295
1979	4,357,441	22,439,889	3,973,686	1,559,792	32,330,808
1980	4,756,983	20,466,353	3,404,736	1,530,000	30,158,072
1981	5,202,220	27,724,128	3,436,411	1,500,342	37,863,102

* A revised Policy, Procedure and Information Manual, which became effective in January, 1977, combined several of the capital programs reported separately in previous years.

Detailed statistical data for 1980 is not available. A new format is being developed and it is expected that significant additional 1981 data will be available for the 1982 publication.

AVIATION AND FIRE MANAGEMENT CENTRE

Box 310, Sault Ste. Marie, Ontario P6A 5L8
Telephone (705) 942-1800. Telex 067-77166, 067-77134.

Director	J. F. Goodman	(705) 942-1800
Finance and Administration Supervisor .	W. A. Sinclair	1800
Purchasing Officer	H. J. McMillan	1800
Fire Management Section	W. H. Forman, Spvr.....	1800
Provincial Fire Operations	J. G. Minor	1800
Project Management	R. J. Drysdale, Spvr.....	1800
Fire Management Education		
Co-ordinator	R. B. Little	1800
Chief Pilot	W. K. Warner	1800
Maintenance Superintendent	G. Willoughby	1800
Assistant Supt., Maintenance		
Airframe Section	S. J. Denley	1800
Engine Section	P. F. Holder	1800
Quality Control Inspector	D. J. Moffat	1800
Communications Supervisor	J. Scotland	1800
Flight Ops. Officer, Malton Airbase	W. C. Clarke	(416) 678-1172

FOREST FIRE RECORD — Areas in hectares (acres in light face)

Year	Damage	Private Property Damage	Crown	Area Burned Over	Total	Number of Fires	Area per Fire
1917	\$	\$	155,466	1,110	140
					384,164		346
1918	12,210	965	12
					30,172		31
1919	373,186	1,780	210
					922,161		518
1920	145,222	1,287	113
					358,851		279
1921	303,326	1,269	239
					749,534		591
1922	140,099	1,021	151
					346,193		339
1923	857,995	1,343	639
					2,120,148		1,579
1924	55,091	851	69
					146,017		171
1925	76,705	1,149	67
					189,543		165
1926	26,664	9,100	35,764	1,110	32
			65,888	22,486	88,374		80
1927	9,216	5,248	14,464	924	16
			22,772	12,970	35,742		39
1928	39,026	1,598	40,624	536	76
			96,436	3,947	100,383		187
1929	246,353	6,836	253,189	1,550	163
			608,750	16,893	625,643		404
1930	144,688	143,371	288,059	1,402	206
			357,531	354,278	711,809		508
1931	42,843	13,120	55,963	1,851	30
			105,866	32,421	138,287		75
1932	253,558	21,232	274,790	2,073	133
			626,555	52,466	679,021		328
1933	131,537	10,086	141,623	1,919	74
			325,034	24,924	349,958		182
1934	64,891	15,493	80,384	1,568	51
			160,348	38,285	198,633		127
1935	74,090	27,309	101,439	1,309	77
			183,179	67,483	250,662		191
1936	466,957	44,741	511,698	2,264	226
			1,153,876	110,557	1,264,443		558
1937	81,701	9,251	90,952	1,453	63
			201,887	22,859	224,746		155
1938	38,918	17,028	55,946	1,292	43
			96,168	42,077	138,245		107
1939	10,558	1,218	11,776	961	12
			26,089	3,009	29,098		30
1940	40,869	8,346	49,215	1,014	49
			100,990	20,624	121,614		120

FOREST FIRE RECORD — Areas in hectares (acres in light face)

Year	Damage	Private Property Damage	Area Burned Over			Number of Fires	Area per Fire
	\$	\$	Crown	Private	Total		
1941	.....	.....	109,991	159,751	269,742	1,265	213
			271,793	394,754	666,547		527
1942	.....	.....	31,448	14,571	46,019	1,224	38
			77,709	36,007	113,716		93
1943	.....	.....	13,543	7,831	21,374	624	34
			33,465	19,352	52,817		85
1944	.....	.....	29,635	38,713	68,348	1,137	60
			73,228	95,663	168,891		149
1945	.....	.....	7,283	12,348	19,631	966	20
			17,997	30,513	48,510		50
1946	.....	.....	18,072	12,995	31,877	1,739	18
			44,656	32,113	78,769		44
1947	.....	.....	15,416	18,591	34,007	1,393	24
			38,093	45,939	84,032		60
1948	.....	.....	345,917	65,806	411,723	2,036	202
			854,778	162,611	1,017,389		500
1949	.....	.....	16,427	7,880	24,307	1,834	13
			40,593	19,472	60,065		33
1950	55,148	103,682	5,343	9,541	14,884	985	15
			13,203	23,577	36,780		37
1951	389,447	56,389	39,118	1,854	40,972	904	45
			96,662	4,581	101,243		112
1952	29,504	31,347	2,940	2,087	5,027	1,095	4
			7,264	5,157	12,421		11
1953	393,874	81,778	18,016	5,782	23,508	1,520	16
			44,519	14,290	58,089		39
1954	406,241	15,650	14,615	7,518	22,133	881	25
			36,115	18,578	54,693		62
1955	3,591,680	184,940	150,118	10,309	160,427	2,252	71
			370,948	25,475	396,423		176
1956	3,068,152	22,319	89,768	1,777	91,545	1,017	90
			221,822	4,390	226,212		222
1957	463,059	113,751	9,814	9,065	18,879	1,671	11
			24,250	22,401	46,651		28
1958	311,503	97,036	10,337	4,496	14,833	1,558	10
			25,544	11,108	36,652		24
1959	22,041	20,757	1,044	1,093	2,137	1,029	2
			2,580	2,701	5,281		5
1960	438,094	56,442	11,813	888	12,701	956	13
			29,190	2,196	31,386		33
1961	31,989,802	152,639	477,894	1,549	479,433	1,305	367
			1,180,900	3,828	1,184,728		908
1962	74,748	99,165	3,069	2,517	5,586	1,521	4
			7,583	6,221	13,804		9
1963	706,888	39,932	16,467	6,251	22,718	1,885	12
			40,692	15,446	56,138		30

FOREST FIRE RECORD — Areas in hectares (acres in light face)

Year	Damage	Private Property Damage	Crown	Area Burned Over		Number of Fires	Area per Fire
1964	\$ 500,296	\$ 19,792	9,090	2,291	11,381	1,829	6
			22,463	5,661	28,124		15
1965	386,850	254,105	6,068	1,987	8,055	1,218	6
			14,995	4,909	19,904		16
1966	71,521	49,457	3,421	2,413	5,834	1,921	3
			8,453	5,962	14,415		8
1967	1,353,919	87,638	23,768	1,930	25,698	1,465	17
			58,733	4,769	63,502		43
1968	4,174	54,146	1,078	2,751	3,829	1,219	3
			2,665	6,796	9,461		8
1969	134,756	4,623	1,813	669	2,482	901	3
			4,481	1,653	6,134		7
1970	1,323,041	28,815	.....	.....	23,537	1,239	18
			.....	.....	58,160		45
1971	462,064	75,875	.....	.....	14,649	1,790	8
			.....	.....	36,199		20
1972	1,081,876	47,446	.....	.....	32,029	1,604	20
			.....	.....	79,145		49
1973	11,944	121,900	2,417	1,190	3,607	1,111	3
			5,973	2,940	8,913		8
1974	12,063,428	239,384	522,641	1,346	523,987	1,625	323
			1,291,473	3,327	1,294,800		797
1975	683,726	340,414	11,226	5,630	16,856	3,146	5
			27,740	13,911	41,651		13
1976	26,839,738	930,514	536,529	7,578	544,107	3,985	136
			1,325,791	18,726	1,344,517		337
1977	11,190,900	252,565	411,752	4,564	416,316	2,049	203
			1,017,460	11,279	1,028,739		502
1978	165,267	139,386	7,040	483	7,523	940	8
			17,397	1,194	18,591		20
1979	2,310,161	60,032	63,322	393	63,715	1,564	41
			156,472	972	157,444		101
1980	72,094,096	3,254,443	524,893	35,847	560,740	1,779	315
			1,296,031	88,512	1,384,543		778

1980 FOREST FIRES BY DISTRICT

District	Number of Fires	Hectares Burned Over	ha per Fire	Acres Burned Over	Ac per Fire
Dryden	93	3,912.2	42.0	9,667.3	103.9
Fort Frances	97	7,896.2	81.4	19,512.0	201.2
Ignace	54	68,245.2	1,263.8	168,637.2	3,122.9
Kenora	213	127,914.7	600.5	316,083.0	1,484.0
Red Lake	90	58,602.2	651.1	144,808.7	1,609.0
Sioux Lookout	174	107,796.2	619.5	266,369.4	1,530.9
Atikokan	81	7,568.4	93.4	18,701.8	230.9
Geraldton	76	21,801.6	268.8	53,872.8	708.9
Nipigon	67	292.3	4.3	722.3	10.8
Terrace Bay	18	8.4	.4	20.7	1.2
Thunder Bay	108	147,605.3	1,366.7	364,739.5	3,377.2
Chapleau	27	5,936.1	220.1	14,668.3	543.3
Cochrane	10	37.0	3.7	91.6	9.2
Gogama	20	30.4	1.5	75.2	3.8
Hearst	15	5.9	.4	14.5	1.0
Kapuskasing	9	39.2	4.4	96.9	10.8
Kirkland Lake	26	33.2	1.3	82.2	3.2
Moosonee	10	958.3	95.8	2,368.0	236.8
Timmins	12	15.8	1.3	39.1	3.3
Blind River	17	14.0	.8	34.5	2.0
Espanola	10	27.9	2.8	69.0	6.9
North Bay	54	184.4	3.4	455.7	8.4
Sault Ste. Marie	16	75.7	4.7	187.1	11.7
Sudbury	102	150.1	1.4	370.9	3.6
Temagami	20	26.9	1.3	66.4	3.3
Wawa	50	718.9	14.3	1,776.5	35.5
Algonquin Park	16	5.6	.3	13.8	.9
Bancroft	24	18.8	.8	46.4	1.9
Bracebridge	25	34.1	1.4	84.2	3.4
Minden	21	21.7	1.0	53.7	2.6
Parry Sound	48	39.7	.8	98.0	2.0
Pembroke	56	64.5	1.1	159.5	2.8
Lanark	35	32.4	.9	80.1	2.3
Tweed	50	164.4	3.3	406.2	8.1
Huronia	9	3.1	.3	7.7	.9
Lindsay	19	12.2	.6	30.1	1.6
Owen Sound	7	13.4	1.9	33.1	4.7
Total	1,779	560,306.4	315.0	1,384,543.4	778.3

1980 FOREST FIRES BY MONTHS

District	Number of Fires	Hectares Burned Over	ha per Fire	Acres Burned Over	Ac per Fire
March	9	70.2	7.8	173.5	19.3
April	257	3,708.7	14.4	9,164.4	35.7
May	626	328,733.3	525.1	812,315.1	1,297.6
June	309	222,526.7	720.1	549,873.7	1,779.5
July	449	5,240.3	11.6	12,949.1	28.8
August	107	24.0	.2	59.4	.6
September	16	2.1	.1	5.3	.3
October	6	1.1	.2	2.9	.5
Total	1,779	560,306.4	315.0	1,384,543.4	778.3

DETECTION OF FOREST FIRES

Agencies	1976	1977	1978	1979	1980
Towers	5	2	0	0	1
Ministry Aircraft	1,294	425	136	420	484
Total Organized Dtn	1,299	427	136	420	485
Public	1,948	1,434	750	875	1,026
Other Aircraft	738	188	54	269	268
Total Random Dtn	2,686	1,622	804	1,144	1,294
Total Fires	3,985	2,049	940	1,564	1,779
% age, Organized Dtn	33	21	14	27	27

SIZES OF FOREST FIRES

Area Burned Over	1976	1977	1978	1979	1980
Up to 1/4	Acres	1,957	811	470	785
Over 1/4 to 10	Acres	1,625	1,006	390	669
Over 10 to 100	Acres	224	157	57	73
Over 100 to 500	Acres	78	29	18	16
Over 500	Acres	101	46	5	21
Total Fires		3,985	2,049	940	1,564
					1,779

PROSECUTIONS

Actions re Forest Fires	1976	1977	1978	1979	1980
Prosecutions	103	112	27	24	178
Convictions	81	103	27	14	171

CAUSES OF FOREST FIRES — I

GENERAL CAUSES	1976	1977	1978	1979	1980
Recreation	816	530	359	407	239
Resident	251	280	91	90	232
Incendiary	55	55	35	24	34
Railways	359	257	147	169	233
Industry (Forest)	33	18	19	21	26
Industry (Other)	32	32	21	28	15
Miscellaneous (Known)	281	310	87	101	160
Unknown	72	40	16	28	47
Lightning	2,086	527	165	696	793
Total Fires	3,985	2,049	940	1,564	1,779

CAUSES OF FOREST FIRES — II

SOURCE OF IGNITION	1976	1977	1978	1979	1980
Smoking Materials	410	380	171	212	173
Camp Fires	403	222	186	186	117
Matches	240	195	80	65	87
Fireworks	1	2	1	1	—
Explosives	1	2	—	1	—
Fusee	10	8	2	12	4
Prescribed Burning	1	—	2	3	—
Dump Ashes, Coals	9	5	5	7	7
Burning Grass	61	50	17	23	74
Burning Brush	59	59	39	22	35
Burning Rubbish	44	40	15	13	38
Burning Garbage Dump	68	40	8	18	33
Burning Bulldozed Pile	9	4	—	2	3
Burning Sawdust Pile	2	3	—	2	1
Burning Ties	19	12	11	10	14
Burning Right of Way	5	18	3	5	9
Locomotive, Diesel	56	38	39	37	48
Locomotive, Steam	—	—	—	—	—
Brake Shoe	192	141	66	64	101
Hot Box	8	3	—	2	6
Power Saw	11	5	1	1	7
Mechanical Equipment	37	43	30	18	34
Power Line (Short)	23	65	15	15	17
Sparks from Chimney	4	4	—	3	2
Sparks from Burner	—	1	1	3	2
Structural Fires	16	21	11	9	10
Miscellaneous (Known)	59	49	19	22	51
Unknown	152	112	54	113	114
Lightning	2,085	527	164	695	792
Total Fires	3,985	2,049	940	1,564	1,779

CAUSES OF FOREST FIRES — III

RESPONSIBLE GROUPS	1976	1977	1978	1979	1980
RECREATION					
Fishermen	254	141	110	138	81
Hunters	73	9	69	13	4
Canoeists	45	29	17	27	13
Campers	114	77	55	40	41
Picnickers	21	15	7	11	10
Berry Pickers	147	62	48	98	39
TRAVELLERS					
Car Passengers	87	126	38	39	70
Hikers	51	66	17	22	10
Train Passengers	5	—	—	2	—
Guided Parties	—	1	1	—	1
RESIDENTS					
Farmers	30	31	14	11	27
Rural Residents	136	137	47	47	116
Urban Residents	13	14	4	5	15
Private Cottagers	48	70	27	18	45
Resort Owners	3	3	1	1	—
Indians (on Reserves)	47	21	5	15	21
VOCATION					
Trappers	1	1	2	—	—
Prospectors	1	1	—	2	—
Timber Cruisers	1	1	—	—	—
Survey Parties	2	—	—	2	—
Military	1	2	1	—	—
EMPLOYEE OF—					
Woods Industry	26	19	16	21	21
Mining	—	5	1	1	2
Pipeline	—	—	—	—	—
Hydro	11	6	4	5	3
Telephone	—	1	1	—	1
Highway or Road	6	2	—	3	2
R.R. Section	34	37	15	8	24
R.R. Train Crew	273	31	21	9	32
R.R. Work Crew	31	185	111	147	167
Other Industry	9	12	9	6	12
Natural Resources	13	10	5	7	10
Other Prov Government	1	1	1	—	—
Federal Government	—	—	1	1	—
Municipality	2	7	—	8	5
MISCELLANEOUS					
Children	172	172	48	49	60
Youth Camps	—	3	—	—	1
Miscellaneous (Known)	64	94	28	26	50
Unknown	177	130	51	87	103
Total Man-Caused Fires	1,899	1,522	775	869	986
Percentage of All Fires	48	74	82	56	55

AIR SERVICE SUMMARY — I — Hours Flown in years ending March 31

Year	Fire Ranging	Timber	Fish and Wildlife	Surveys	Lands	Parks
1977	6,611	994	3,418	181	628	571
1978	3,149	1,127	3,775	287	1,088	538
1979	3,340	1,290	4,731	182	735	662
1980	2,000	1,650	2,500	345	1,000	600
1981	3,000	1,674	2,473	342	1,065	609
1924-81 Total	237,293	37,163	107,051	3,090	15,275	13,116

Year	Research	Inter- Ministry	Photo	Mercy Flights	Miscellaneous	Total
1977	506	1,400	463	46	3,003	17,820
1978	482	3,123	479	15	1,953	16,015
1979	105	2,652	578	25	364	14,633
1980	400	1,550	550	30	4,525	15,150
1981	380	1,372	621	19	3,662	15,217
1924-81 Total	9,483	30,038	6,246	1,823	167,973	628,551

AIR SERVICE SUMMARY — II — in years ending March 31

Year	Mercy Flights	Passengers Carried	Loads Carried Tons	Metric Tons
1977	22	29,756	19,926.78	21,976
1978	10	28,639	783.00	863
1979	3	27,937	806.74	888
1980	13	27,336	1,023.04	1,132
1981	10	25,480	801.06	883

ADMINISTRATION DIVISION

Room W-6345, Main Office. Telephone (416) 965-7106.

Assistant Deputy Minister	M. Mogford	W-6345 . . . 7106
Secretary	Miss Y. Watier	W-6345 . . . 7106
Finance, Planning & Evaluation Group		
Executive Co-ordinator	G. D. Spry	W-6347 . . . 6148
Human Resources Planning		
Director	H. B. Farrant	W-4343 . . . 0323
Affirmative Action		
Program Co-ordinator	M. Paul (acting)	W-5441 . . . 5663

ADMINISTRATION DIVISION

COMMUNICATIONS SERVICES BRANCH

Room W-5340, Main Office. Telephone (416) 965-2756.

Branch Director	K. Robertson (acting)	W-5352 . . . 3315
Information & Liaison Section	K. Robertson, Spvr.	W-5353 . . . 2756
Exhibits & Administration Section	Mrs. E. H. Brown, Spvr.	W-5351 . . . 1281
Audio Visual & Films Section		
Photography	W. G. Lanning, Mgr.	W-5343 . . . 2758
Special Projects	L. P. Bondy	W-5354 . . . 2756

ADMINISTRATION DIVISION

PERSONNEL SERVICES BRANCH

Room W-4520, Main Office. Telephone (416) 965-3825.

Branch Director.....	H. B. Farrant	W-4527 . . . 3828
Manpower Section	E. E. Rhodes	W-4612 . . . 2707
Manpower Training & Devel. Unit	R. Butcher	W-4606 . . . 2707
	C. Peterson	W-4605 . . . 2707
Staffing	Mrs. R. Kelly	W-4603 . . . 2707
	Miss N. Miller	W-4602 . . . 2707
Unclassified Staff & Manpower Data ..	E. Yhap	W-4613 . . . 2707
Junior Ranger & Youth Programs	M. T. Campbell	W-1545 . . . 1258
Compensation & Staff Relations Section	J. A. Temple	W-4506 . . . 6091
Pay and Classification	E. Polonoski	W-4502 . . . 6091
	Mrs. M. Goldhar	W-4504 . . . 6091
	Mrs. M. Koszarny	W-4507 . . . 6091
	D. Williams	W-4501 . . . 6091
	Miss G. Wylie	W-4503 . . . 6091
Staff Relations	P. Mooney	W-4525 . . . 3825
Employee Relations	Mrs. C. Mahon	W-4528 . . . 9951
Personnel Records Section	Mrs. L. England	W-4520 . . . 3961
Accounting & Benefits	Miss N. Davidson	W-4522 . . . 3961
Safety Program Development Section . . .	J. Hastings	W-4523 . . . 5771

STAFF SUMMARY

Staff at March 31	1977	1978	1979	1980	1981
Regular Staff	3,603	3,614	3,919	4,088	4,060
Probationary Staff.....	302	250	456	341	322
Unclassified Staff	2,103	2,051	1,698	1,938	1,636
Total Staff	6,008	5,915	6,073	6,367	6,018
Main Office Staff	1,172	906	930	917	880
Field Office Staff	2,733	2,958	3,445	3,512	—
New Employees	234	250	862	316	306
Deceased	18	9	8	11	10
Superannuated	84	95	97	89	99
Transferred	112	49	32	38	1
Resigned	131	91	146	199	165
Dismissed	1	1	0	3	3
Released	2	1	4	1	5
Miscellaneous	9	0	0	0	29
Total Separations	355	246	287	341	312
Junior Rangers	1,606	1,918	1,968	1,800	1,736

MANAGEMENT GROUPS

Administrative	232
Clerical	17
Operational	20
Professional	266
Technical	502
Total	1,037

Executive Compensation Plan — 45

BARGAINING UNIT CATEGORIES

Administrative Services .....	.70
Scientific & Professional Services	481
Technical Services	1,402
Office Services	394
Clerical Services	538
Maintenance Services	316
General Operational Services .....	.99
Total	3,300

ADMINISTRATION DIVISION

ENERGY/BILD OFFICE

Room W-5446, Main Office. Telephone (416) 965-5537.

Executive Co-ordinator	D. P. Drysdale	W-5446 . . . 5537
Admin. Asst.	A. Ireland-Smith	W-5447 . . . 5537

Energy Policy Advisors

Mineral Resources	P. Telford	1183
Forest Resources	W. Alton	2731
Administration	G. Laivenieks	4600
Lands and Waters	T. Kurtz	6285
Outdoor Recreation	R. Beatty	3981

ADMINISTRATION DIVISION

ADMINISTRATIVE SERVICES BRANCH

Room W-5528, Main Office. Telephone (416) 965-2711.

Branch Director	J. A. Queen	W-5528 . . . 2711
Services Section	M. Cuthbert, Mgr.	W-5526 . . . 4600
Conferences, Hospitality	M. D. Cantelon	W-5525 . . . 6166
Office Management	H. L. Bembridge, Spvr.	W-5301 . . . 5134
Vehicle Pool	Mrs. J. Mills	W-5301 . . . 9988
Public Service Centre	Miss M. I. Leuty, Spvr.	W-1640 . . . 6511
General Inquiry (MNR)		2000
(Whitney Block Info Booth)		
Supply Section	R. Armstrong, Mgr.	W-5529 . . . 3317
Supply Analyst	Ms. E. McKenzie	W-5530 . . . 3317
Purchasing	J. May, Spvr.	W-5531 . . . 1601
Central Supply Warehouse	D. McIntyre, A/Spvr.	1286
733 King St. West, Toronto		
Records & Forms Management Section	A. J. Lesser, Mgr.	W-5422 . . . 3822
Data Processing Unit	R. Khan, Spvr.	W-5420 . . . 0116
Remote Job Entry Terminal	Miss D. Danlake	W-5426 . . . 3419
Facilities & Fleet Section	G. Laivenieks, Mgr.	W-5423 . . . 4600
Facilities	T. Pierro, Spvr.	W-5423 . . . 4645
Accommodation Services	S. Fenton	W-5423 . . . 4645
Fleet & Equipment	L. Krol, Spvr.	W-5504 . . . 1255

VEHICLES AND EQUIPMENT IN SERVICE — in year ending March 31, 1980

Type	*Number in Operation
Subcompact Cars and Station Wagons	5
Compact Cars and Station Wagons	142
Full-size Cars and Station Wagons	126
Standard and Extended Pickups	749
Four-wheel-Drive Vehicles	251
Crew Cabs and Cargo Vans	80
Passenger Vans and Personnel Carriers	130
Buses	9
Cab and Chassis — 10,000 GVW	95
Cab and Chassis — over 10,000 GVW	150
Cab and Chassis — specialized bodies	26
TOTAL	1,763
Motorcycles	35
Trailers (boat and equipment)	930
Trailers (refrigerated)	26
Snowmobiles	647
Tractors	306

*Number includes replacements and vehicles to be disposed of.

ADMINISTRATION DIVISION

LEGAL SERVICES BRANCH*

Room W-6420, Main Office. Telephone (416) 965-2748.

Director	J. Shantora	W-6427 . . . 2748
Solicitors	B. G. Jones	W-6422 . . . 2748
	L. A. Low	W-6426 . . . 2748
	W. J. Obelnycki	W-6424 . . . 2748
	W. E. D. Peters	W-6425 . . . 2748
	J. M. Pounder	W-6421 . . . 2748
	D. G. Searle	W-6423 . . . 2748
	S. Spindler	W-6421 . . . 2748
	T. N. Trow	W-6428 . . . 2748

*Legal Services Branch was transferred to the Attorney General on April 1, 1973, and seconded to the Minister of Natural Resources on the same date.

LEGISLATION

The Acts administered by the Ministry are as follows.

LANDS AND WATER GROUP

THE BEDS OF NAVIGABLE WATERS ACT (sometimes referred to as the "Cochrane Act") is declaratory legislation relating to title in the beds of navigable waters. It followed the decision in the 1911 case of Keewatin Power versus The Town of Kenora. By the Act, the beds are deemed not to have passed to the grantee of bordering Crown land in the absence of an express grant.

THE ONTARIO GEOGRAPHIC NAMES BOARD ACT provides for the establishment of a Geographic Names Board for Ontario having the duty to gather information respecting the names of places and geographical features, make recommendations thereon, collaborate with the Canadian Permanent Committee on Geographic Names, and provide information to government departments, etc. The Minister may approve a recommended name and thereupon it shall be used by all government departments and agencies in the preparation of maps and other publications.

THE ONTARIO HARBOURS AGREEMENT ACT, 1962-3, confirms on behalf of Ontario the agreement between Ontario and Canada establishing the harbours which were public harbours at Confederation, providing that mines and minerals therein are administered by Ontario and confirming grants and quit claims listed therein. The federal harbours are Amherstburg, Belleville, Brockville, Chatham, Collingwood, Fort William, Gananoque, Goderich, Kincardine, Kingston, Kingsville, Leamington, Oshawa, Owen Sound, Penetanguishene, Port Arthur, Port Burwell, Port Hope, Port Stanley, Prescott, Rondeau Bay, Sarnia, Sault Ste. Marie, Southampton, Toronto, Whitby and Windsor.

THE PUBLIC LANDS ACT provides for: (1) A Public Agricultural Lands Committee to recommend on agricultural lands and their settlement, replacing the regulations on this subject; (2) The disposition of Crown land for a variety of purposes by sale, lease or licence, and by auction or tender; (3) The management of Crown land by the Ministry by zoning for land use, setting apart for public use, research, etc., and through agreements with municipalities on beaches and water lots; (4) The administration of roads on Crown lands including the designation of public forest roads and agreements with occupiers of private forest roads respecting the use by the public of private forest roads; (5) The administration and control of the construction and maintenance of dams; (6) The granting of water powers and privileges.

THE SURVEYORS ACT deals with the Association of Ontario Land Surveyors and the rules governing membership and conduct. The Minister or his appointee and the Surveyor-General are members of the Council of Management.

THE SURVEYS ACT defines the system of surveys and the rules for surveyors. The Minister orders surveys made on his volition or upon application to settle disputes or lost lines, etc.; after hearing evidence, he confirms the surveys, with or without amendment. His decision is subject to appeal to a judge of the Supreme Court.

THE NORTH GEORGIAN BAY RECREATIONAL RESERVE ACT, 1962-3, establishes the North Georgian Bay Recreational Reserve and provides for the planning and development thereof and the appointment of a committee to advise the Minister thereon.

THE MINING ACT with respect to: the administration of public lands for mining purposes; the issuing of licences and leases relating to exploration and drilling for, and the production of, minerals and oil and natural gas; the staking and recording of mining claims; and the rights of licensees and lessees under the Act. An acreage tax is levied under this Act. (See under Mineral Resources Group).

THE BEACH PROTECTION ACT prohibits the removal of sand from the bed, bank, beach, shore or waters of any lake, river or stream in Ontario except under the authority of a licence issued under the Act. Licensees may be required to pay a fixed sum per yard of sand removed from property of the Crown.

THE CANADA COMPANY'S LAND ACT, 1922, empowers the Crown to sell and convey to purchasers of lands from the Canada Company the mineral rights in the lands.

THE LAKES AND RIVERS IMPROVEMENT ACT deals with: the construction, repair and use of dams; timber driving; and timber slide companies and tolls. The Minister is charged with the responsibility of settling disputes between conflicting users under certain circumstances. An officer may be appointed to regulate the use of waters or works.

THE CONSERVATION AUTHORITIES ACT provides for the establishment of conservation authorities for the purpose of establishing and undertaking in the area over which they are given jurisdiction, programs designed to further the conservation, restoration, development and management of natural resources other than gas, oil, coal and minerals.

FOREST RESOURCES GROUP

THE CROWN TIMBER ACT enables the granting of the following four types of licences to cut Crown timber: a licence based on a call for tenders, a licence to salvage timber, a licence for areas that do not exceed 64.75 hectares (160 acres), and a licence approved by Order in Council for large areas.

The Act also enables the Minister to enter into comprehensive forest management agreements with members of the forest industry to ensure that forests under the agreements are harvested and regenerated to produce successive crops of timber on a sustained yield basis.

Crown Management Units may be established under the Act and agreements entered into for the supply of Crown timber from such units. Under this arrangement, the party to the agreement does not have exclusive rights in a specific area until a licence is granted to him to fill his requirements for an operating season.

Crown dues and area charge are fixed by the regulations.

Other subjects dealt with are: forest management, operating and annual plans; examination of scalers and licensing of scalers; licensing of mills; penalties for wasteful practices, unauthorized cutting, removal of timber before scaling, and other violations; and protection of the Crown's interests through seizure of timber and a statutory lien for Crown charges.

THE FORESTRY ACT. Under this Act: (1) The Minister enters into agreements with landowners such as municipalities, conservation authorities and the National Capital Commission (Ottawa) to manage the forest lands; (2) Ministry tree nurseries are established and nursery stock is distributed; (3) Private forest reserves are set up on private lands with the consent of the owner; (4) The Minister, with the approval of the Lieutenant Governor in Council, may establish programs for the encouragement of forestry. At present, a managed forest tax reduction program has been established by the Minister.

THE SETTLERS' PULPWOOD PROTECTION ACT provides for the regulation of the sale and of the price of pulpwood cut from settlers' land.

THE SPRUCE PULPWOOD EXPORTATION ACT provides for the exportation under the authority of an Order-in-Council of unmanufactured spruce pulpwood from lands granted under special Acts which prohibit such export.

THE TREES ACT provides that, with the Minister's approval, municipalities may pass by-laws restricting and regulating the destruction of trees and appoint enforce-

ment officers. Generally, by by-law, municipalities may acquire land for forestry purposes and enter into agreements with the Minister for the management of such lands and related matters.

THE WOODLANDS IMPROVEMENT ACT provides for the Minister to enter into agreements with owners of lands suitable for forestry purposes and situate in a private forest management area for the planting of nursery stock or stand improvement.

THE WOODMEN'S EMPLOYMENT ACT authorizes the appointment of inspectors and the making of regulations respecting conditions in lumber camps. It also provides that Crown timber licensees are responsible for the acts and omissions of their jobbers and subcontractors who carry out operations.

THE WOODMEN'S LIEN FOR WAGES ACT provides a lien and a procedure to enforce such lien for persons performing labour on timber.

THE ALGONQUIN FORESTRY AUTHORITY ACT establishes a Crown corporation known as the Algonquin Forestry Authority to harvest Crown timber in Algonquin Provincial Park and public lands adjacent to the park, to sell the logs, and also to carry out such forestry, land management and other programs and projects as the Minister of Natural Resources authorizes.

THE FOREST TREE PEST CONTROL ACT provides for the control of outbreaks of forest tree insects and diseases on private lands.

MINERAL RESOURCES GROUP

THE MINING ACT with respect to the issuing and administration of exploratory licences and production leases for oil and natural gas on public lands in designated parts of Ontario; processing applications for exemptions from restrictions on foreign processing; refinery licences; and the regulation of mining operations conducted within Ontario except under Part IX. (Also see under Lands and Waters Group.)

THE PITS AND QUARRIES CONTROL ACT provides for the regulation of pit and quarry operations in designated parts of Ontario. Operations in designated areas must be licensed under the Act and are subject to periodic review to assure compliance with the provisions of the Act, the regulations and site plan.

THE PETROLEUM RESOURCES ACT sets forth licensing requirements for various aspects of oil and natural gas exploration, drilling and production and provides for the making of regulations respecting oil and gas conservation and the safe operation of drilling and production facilities.

THE MINING TAX ACT a revenue generating unit which offers incentives to mineral producers for exploration, production and processing in Ontario, imposes a profit tax on Ontario mines. The tax is assessed on the value of output of the mine at the pit's mouth determined in accordance with the provisions of the Act.

THE ONTARIO MINERAL EXPLORATION PROGRAM ACT provides incentives to encourage mineral exploration activities in the province by providing grants/tax credits equal to 25% of eligible exploration expenses to prospectors, non-producing exploration companies and to individual investors and corporations not directly engaged in mining activities in order to stimulate the financing of mineral exploration.

THE INDUSTRIAL AND MINING LANDS COMPENSATION ACT provides for agreements between the owner or operator of a mine and the owner or lessee of any land for payment of compensation for any damage or injury resulting or likely to result to the land or to its use and enjoyment from the operation of the mine.

THE GAS AND OIL LEASES ACT sets out the procedure whereby a lessor under a gas or oil lease may, upon default by the lessee under the terms of the lease, obtain an order declaring the lease void.

OUTDOOR RECREATION GROUP

THE ENDANGERED SPECIES ACT provides for the conservation, protection, restoration and propagation of species of flora and fauna of the Province of Ontario that are threatened with extinction.

THE GAME AND FISH ACT deals with the management of wildlife resources; game animals; game birds (upland); fur-bearing animals; frogs; sale and rearing of game fish; and offences and enforcement. Regulations made under the Act establish open seasons for hunting and trapping; bag limits; Crown game preserves; the licensing of hunters, trappers, guides, persons operating game bird hunting preserves, and persons selling game fish for stocking and human consumption; the regulating of dogs used in hunting, aircraft transporting hunters, and conduct of hunters (hunter safety); and farmer-hunter relations. The Game and Fish Hearing Board was established under the Act on November 15, 1973.

THE FISH INSPECTION ACT is complementary to the Federal Act.

THE FISHERIES ACT (CANADA). Ontario Fishery Regulations are made under this Act. They relate to open seasons for angling and commercial fishing and the licences required. The form of licences and the fees are prescribed under The Game and Fish Act.

THE FISHERIES LOAN ACT provides for loans to persons carrying on the business of commercial fishing or any other business dependent in whole or in part on the taking of fish from waters in which such taking has been prohibited by reason of the contamination of fish resulting from pollution of the water. Provision is made for federal-provincial agreements respecting the sharing of such loans.

THE FRESHWATER FISH MARKETING ACT (ONTARIO) complements the Freshwater Fish Marketing Act (Canada). Through these Acts and the federal-provincial agreement, the Freshwater Fish Marketing Corporation established under the Federal Act is the sole purchaser of commercial fish, as defined in the Federal Act, taken in that part of Ontario designated in the regulations, i.e., that part of Ontario westerly of longitude 86° except the Territorial District of Rainy River but including that part of Lake of the Woods in the Territorial District of Rainy River. Sales to and purchases by persons for their own consumption or for consumption by persons or animals in the course of the purchaser's business are excepted.

THE WILD RICE HARVESTING ACT prohibits the harvesting of rice on Crown land except under the authority of a licence.

THE WOLF DAMAGE TO LIVESTOCK COMPENSATION ACT, 1972, provides for payment of compensation to the owners of livestock killed or injured by wolves.

THE MIGRATORY BIRDS CONVENTION ACT. Open seasons for migratory birds are set under this Act.

THE PROVINCIAL PARKS ACT provides for the establishment of provincial parks and their management and for certain employees having the authority of the O.P.P. in a provincial park. Advisory committees for one or more provincial parks may be appointed by the Minister with the approval of the Lieutenant-Governor in Council.

Parks may be classified as a natural environment park, a nature reserve park, a wilderness park, a recreational park, a waterways park, or an historical park. Any of these classes may be zoned with controlled use in zones.

Mining is prohibited in provincial parks except as provided in the regulations. The regulations on mining were revoked in 1956 but rights and interest existing at that time were preserved.

Hunting is prohibited in provincial parks except as provided in the regulations under The Game and Fish Act or where the prohibition is removed by designation of the Lieutenant-Governor in Council under The Provincial Parks Act. This does not apply to the Townships of Bruton and Clyde (added to Algonquin Provincial Park by a Special Act).

Concession leases are granted under the Act. The Province calls for tenders for buildings and facilities.

Vehicle admission charge is \$2.00 per day or \$20.00 for the season. Campsite charges are \$5.50 per day, or \$6.00 per day where comfort station facilities are available, and \$7.50 per day for campsites with electrical power. The charge for an extra car on a campsite is \$3.00 per day. On unorganized campsites in park interiors, the charge is \$3.00 per boat per day.

This Act does not apply to any park under the management of the Niagara Parks Commission, the St. Lawrence Parks Commission or the St. Clair Parkway Commission.

THE WILDERNESS AREAS ACT was passed on March 26, 1959, to preserve areas having some unique feature. Development or utilization of the natural resources in an area more than 260 ha (640 acres) in size is not affected by this Act.

THE PARKS ASSISTANCE ACT provides for the establishment of parks in municipalities or in territory without municipal organization. The Minister may with the approval of the Lieutenant-Governor in Council make grants not exceeding 50% of the cost of acquiring land and developing such parks. The parks established under the Act are to be maintained and operated in a manner complementary to provincial parks.

AVIATION AND FIRE MANAGEMENT CENTRE

THE FOREST FIRES PREVENTION ACT applies to the seven fire regions set up by regulation. The fire season, from April 1st to October 31st, may be extended by regulation. Fire permits are required during the fire season to (a) start fires in a fire region except for fires set out for cooking or warmth or to (b) ignite fireworks in or within 300m (1,000 feet) of a forest or woodland. Work permits are required at any time of the year for carrying on any logging, mining, industrial operation or clearing in or within 300m (1,000 feet) of a forest or woodland. Areas may be established as restricted fire zones in which fires for cooking or warmth will be restricted to portable stoves and barbecues or as restricted travel zones in which a travel permit will be required except on public roads, cities, towns, villages, police villages, supervised camping grounds and water adjacent thereto. The Minister may declare emergency areas and may make orders for suppression and the safety and evacuation of persons. The Minister may enter into agreements with Canada, any province, any federal or provincial agency or municipality respecting the prevention and control of forest fires. The regulations establish fire precautions.

GENERAL

THE MINISTRY OF NATURAL RESOURCES ACT effective as of April 1, 1972, created the new Ministry of Natural Resources by amalgamating the former Department of Lands and Forests and Department of Mines and Northern Affairs and repealed the provisions of a number of Acts on which the departments depended for administrative authority. Effective October 30, 1973 the Act provides for the appointment of a Mining and Lands Commissioner and advisory committees.

THE ST. CLAIR PARKWAY COMMISSION ACT established the St. Clair Parkway Commission as a corporation without share capital for the purpose of developing, controlling, managing, operating and maintaining lands acquired by, vested in or placed under the control of the Commission in the Counties of Kent and Lambton and in the Cities of Chatham and Sarnia.

THE ST. LAWRENCE PARKS COMMISSION ACT continues the St. Lawrence Parks Commission as a corporation without share capital for the purpose of developing, controlling, managing, operating and maintaining lands vested in or placed under the control of the Commission in the Counties of Glengarry, Stormont, Dundas, Grenville, Frontenac, Lennox and Addington, and Leeds.

THE NIAGARA PARKS ACT continues the Niagara Parks Commission as a corporation for the purpose of managing, controlling and developing those parks or other lands vested in or placed under the control of the Commission.

THE LAKE OF THE WOODS CONTROL BOARD ACT, 1922, is complementary to a Federal Act of 1921. It deals with the regulation of the water levels of the Winnipeg River, the English River, Lac Seul and Lake St. Joseph. The Board was created following a report in 1917 by the International Joint Commission which was established under a treaty made in 1909 between United States and Great Britain. The membership of the Board consists of a Federal representative and one from Manitoba and two from Ontario. One Ontario member is appointed by the Ontario Hydro. The other is R. M. Odell, Head, Consultative Services, Conservation Authorities and Water Management Branch, Ministry of Natural Resources, with R. B. Chang as alternate member.

The Board has the duty to secure severally and at all times the most dependable flow and the most advantageous and beneficial use of the Winnipeg and English Rivers and, for that purpose, to regulate the overflow of:—

(a) Lake of the Woods, to levels recommended by the International Joint Commission as agreed by Canada and the United States;

(b) Lac Seul, to levels recommended by the Board and approved by the Lieutenant-Governors in Council of Ontario and Manitoba and to regulate the flow into Lac Seul through the Lake St. Joseph diversion.

(c) Winnipeg River, between its junction with the English River and Lake of the Woods, and the English River between its junction with the Winnipeg River and Lac Seul; and

(d) Other waters of the watershed of the Winnipeg River as are placed under its jurisdiction by the Governor-General in Council and the Lieutenant-Governors in Council of Ontario and Manitoba.

THE LAC SEUL CONSERVATION ACT, 1928, provides for the execution of an agreement between the Minister of Lands and Forests and the Government of Canada regarding the construction of a conservation dam at the outlet of Lac Seul.

THE OTTAWA RIVER WATER POWERS ACT, 1943, ratifies and confirms an agreement between the Province of Ontario, the Province of Quebec, the Hydro-Electric Power Commission of Ontario and the Quebec Streams Commission respecting the development of water power on the Ottawa River.

THE SEINE RIVER DIVERSION ACT, 1952, confirms the partial diversion of the Seine River and authorizes the completion and operation of the diversion by Steep Rock Iron Mines Limited.

THE NATIONAL RADIO OBSERVATORY ACT, 1962-3, provides for the transfer of administration and control of certain public lands in the Township of White, District of Nipissing, to Canada for the maintenance and operation of a national radio observatory.

THE GANANOQUE LANDS ACT, 1961-2, vests certain lands in the Town of Gananoque in the Crown and authorizes the sale of encroachments to adjoining owners for a fee of \$50.00 and the granting of the balance of the land.

THE ALGONQUIN PROVINCIAL PARK EXTENSION ACT, 1960-1, adds the public lands in the Geographic Townships of Bruton and Clyde in the Provincial County of Haliburton to the park, subject to hunting.

THE MINERAL EMBLEM ACT, 1975, adopts the amethyst as the mineral emblem of the Province of Ontario.

ADMINISTRATION DIVISION

FINANCE, PLANNING AND EVALUATION GROUP

Room W-6347, Main Office. Telephone (416) 965-6148.

Executive Co-ordinator	G. D. Spry	W-6347 . . . 6148
Secretary	Mrs. C. Caddell	W-6346 . . . 6147
Management Planning and Analysis		
Director	D. M. Wood	W-6341 . . . 4143
Systems Analysis		
Systems Co-ordinator	C. K. Moulson	W-2545 . . . 5674

FINANCIAL SERVICES BRANCH

Room W-4325, Main Office. Telephone (416) 965-2761.

Branch Director	A. C. Goddard	W-4324 . . . 2761
Chief Accountant	A. R. Taylor	W-4326 . . . 2761
Accounts Payable Section	J. T. Tunnicliff	W-4340 . . . 2764
Licence Issuing Section	T. Headley	W-4341 . . . 2814
Payroll Section	J. P. Spraggett	W-4421 . . . 2766
Revenue Section	F. J. Morrell	W-4443 . . . 2770
Financial Reporting and Control Sect.	I. A. Nott, Manager	W-4323 . . . 2761
Expenditure Control	R. Kerr	W-4321 . . . 1895
Financial Reporting & Claims	H. G. Gillis	W-4321 . . . 1895
Financial Methods Section	G. Jarzabek, Mgr.	W-4420 . . . 1218

REVENUE AND EXPENDITURES — in years ending March 31

Year	Budgetary Revenue	Budgetary Expenditure
	\$	\$
1977	109,345,882	239,442,268
1978	99,733,072	242,207,223
1979	129,401,477	246,388,247
1980	202,825,624	279,799,068
1981	275,562,265	349,475,311

LANDS REVENUE — in years ending March 31

Year	Water Power	Crown Land Sales	Crown Land Rentals	Park Rentals & Fees	Pits and Quarries Licences	Land Use Permits
	\$	\$	\$	\$	\$	\$
1977	12,988,363	966,881	618,509	47,604	89,675	398,755
1978	13,715,920	158,100	686,992	44,931	89,300	401,880
1979	16,132,257	762,394	741,831	41,672	109,175	440,550
1980	19,279,984	1,899,009	577,784	57,788	116,625	479,869
1981	19,158,930	2,936,644	754,447	131,733	114,125	478,788

Year	Assignments & Extension Fees	Cons. Authorities Federal Agreements	Return of Grants	Recovery Prior Years Land Acquisition	Misc.	Total
	\$	\$	\$	\$	\$	\$
1977	15,345	325,308	55,900	159,515	34,978	15,700,833
1978	39,562	1,100,177	12,629	18,987	14,380	16,282,858
1979	29,906	575,491	127,846	5,402	40,437	19,006,961
1980	22,045	133,317	54,228	94,270	98,218	22,813,137
1981	85,131	413,588	69,325	2,243	270,350	24,415,304

TIMBER REVENUE — in years ending March 31

Year	Stumpage Charges	Timber Area Charges	Nursery Tree Sales	Agreement Forest	Federal Agreement	Misc.	Total
1977	\$ 25,923,527	\$ 1,883,792	\$ 174,538	\$ 206,150	\$ 406,922	\$ 93,673	\$ 28,688,602
1978	30,776,425	2,232,462	213,095	253,492	982,418	76,098	34,533,990
1979	37,193,516	1,832,965	242,380	494,525	795,530	96,966	40,655,882
1980	42,729,326	5,471,287	235,525	635,368	26,344	86,385	49,184,235
1981	47,266,552	4,401,176	609,097	282,646	1,885	92,587	52,653,943

MINING REVENUE — in years ending March 31

Year	Licences and Permits	Mining Claims	Sale of Mining Lands	Rentals	Royalties	Taxes	Forfeitures	Laboratory Fees	Rec. of Prior Years Expenditure	Total
1977	\$ 75,420	\$ 334,256	\$ 32,015	\$ 656,009	\$ 819,967	\$ 41,652,820	\$ 3,470	\$ 98,161	\$ 74,595	\$ 43,746,713
1978	81,295	280,417	17,870	802,480	1,065,821	22,919,376	4,210	70,698	1,074	25,243,241
1979	60,875	254,066	8,236	827,911	1,380,839	42,372,537	3,360	80,499	125,394	45,113,717
1980	103,787	362,937	6,860	948,112	1,539,814	99,674,524	3,330	125,936	31,891	102,797,191
1981	111,328	639,844	11	847,501	2,380,790	161,061,781	4,060	108,408	—	165,153,723

PROVINCIAL PARKS REVENUE — in years ending March 31

Year	Permits	Campsite Permits	Concessions Rental	St. Lawrence Lic & Permits	Federal Agreement	St. Clair Parkway Commission	Misc.	Total
1977	\$ 671,464	\$ 3,835,840	\$ 317,043	\$ 1,398,060	\$ 241,060	....	\$ 22,551	\$ 6,486,018
1978	729,408	3,753,880	350,837	1,432,275	421,208	....	69,865	6,757,473
1979	913,499	5,238,214	371,071	1,791,382	288,258	....	168,961	8,771,385
1980	971,351	5,325,333	450,018	1,896,935	1,337,144	115,000	100,850	10,196,631
1981	935,283	5,585,691	477,926	1,931,825	2,448,976	15,000	133,917	11,528,618

FISH AND WILDLIFE REVENUE — in years ending March 31

Year	Non-Resident Angling	Other Fishing	Commercial Fishing	Non-Res Hunting	Resident Bear	Resident Deer	Resident Moose	Resident Groundhog	Res (Gun) Hunting
1977	\$ 5,473,577	\$ 102,250	\$ 89,817	\$ 2,046,136	\$ 9,541	\$ 787,631	\$ 1,182,597	\$ 81,743	\$ 977,262
1978	5,603,400	93,838	95,125	1,766,613	9,466	863,246	1,056,029	75,678	997,357
1979	5,825,469	104,533	96,832	1,935,617	12,489	886,363	1,235,920	80,624	1,022,792
1980	5,750,812	111,185	104,928	2,260,030	13,539	1,129,511	1,436,576	74,068	1,502,536
1981	7,513,033	152,757	122,301	1,605,102	87,738	1,184,553	1,483,473	100,653	1,629,245

Year	Dog	Trappers	Fur Dealers	Hunter Exam Fee	Prov. Park Hunting	Misc. Fees & Licences	Royalty Game	Outside Agencies	Agreements	Federal	Total
1977	\$ 16,141	\$ 51,910	\$ 3,565	\$ 98,301	\$ 36,843	\$ 64,752	\$ 432,988	\$ 26,239	\$ 266,200	\$ 11,747,493	
1978	15,681	52,969	5,965	105,339	59,800	95,806	666,789	18,636	321,114	11,902,851	
1979	17,252	62,177	7,750	101,613	67,312	97,424	562,619	1,070	309,919	12,427,775	
1980	37,179	66,730	8,170	88,797	64,408	153,246	931,496	—	266,117	13,999,328	
1981	76,998	69,635	8,400	90,006	66,088	118,488	1,201,461	76,016	291,475	15,877,422	

OTHER CASH RECEIPTS — in years ending March 31

Year	Sale of Maps Publications etc.	Fire Costs Recovered	House Rentals	Sale of Buildings	Sale of Van & Eqpt.	Confiscated Articles	Frost Centre	Non-recurring Items and Misc.	Board & Lodging	Total
1977	\$ 1,626,975	\$ 298,653	\$ 352,369	\$ 24,933	\$ 296,483	\$ 60,173	\$ 257,117	\$ 59,520	\$ —	\$ 2,976,223
1978	1,817,587	835,720	457,659	16,177	875,868	84,033	292,358	633,257	—	5,012,659
1979	1,931,946	391,611	436,711	23,784	224,918	32,445	230,637	153,705	—	3,425,757
1980	2,253,723	67,284	452,803	26,840	420,736	51,918	245,126	316,672	—	3,835,102
1981	2,265,256	651,527	415,824	14,513	1,648,707	21,714	296,127	378,010	241,577	5,933,255

ADMINISTRATION DIVISION
Finance, Planning and Evaluation Group

INTERNAL AUDIT SERVICES BRANCH

Room W-4637, Main Office. Telephone (416) 965-4087

Branch Director..... A. A. Ward W-4637 . . . 4087

Main Office
Audit Manager..... D. L. Lay W-4636 . . . 4088

Northeastern Audit Section
875 Queen Street East
Sault Ste. Marie, P6A 2B3
Senior Auditor W. C. Johnstone (705) 942-1418
(IC 842)

Northwestern Audit Section
Box 5000
Thunder Bay, P7C 5G6
Audit Manager..... N. D. Nurse (807) 475-1211
(IC 844)

Southern Audit Section
c/o District Office
Maple, L0J 1E0
Audit Manager..... D. A. Dooling (416) 832-2761
Ext 281

ADMINISTRATION DIVISION
Finance, Planning and Evaluation Group

**BUDGET AND PROGRAM
EVALUATION BRANCH**

Room W-6311, Main Office. Telephone (416) 965-4218.

Branch Director	M. W. Cox	W-6311 . . . 4218
Program Planning and Budget Section		
Manager	L. Bailey	W-6309 . . . 4210
Budget Supervisor	J. Heywood	W-6309 . . . 5539
Financial Analyst	J. Rawston	W-6309 . . . 4210
Program Evaluation Section		
Manager	G. Doan	W-6540 . . . 4218
Control Systems and Financial Analysis Section		
Manager	D. M. Powers	W-6540 . . . 9052
Senior Financial Analyst	R. McDougal	W-6312 . . . 9052
Budget Accountant	P. Chen	W-6312 . . . 9052

NORTHWESTERN REGION

D. R. Johnston	Regional Director	Box 5160, 808 Robertson St., Kenora,
(vacant).....	Deputy Reg Director	Ont P9N 3X9..... Phone (807) 468-3111
D. R. Fortner	Deputy Reg Director	
G. N. McGeachy ..	Admin Co-ord	(vacant)..... Forester
K. J. Chambers ..	Biologist	G. G. Pyzer
R. J. Kincaid.....	Fire Mgt Officer	R. A. Balkwill
G. N. Warner	Safety Officer	S. O. Russell
R. C. Beard	Geologist	(vacant)..... Parks & Rec Co-ord
D. A. Janes	Geologist	A. Hanson
Sioux Lookout ..	737-1291	Eng Services Co-ord Mining Lands Admin. Mining Recorder Sioux Lookout .. 737-2100
M. Durocher	Geologist	A. S. Rivett
Red Lake	727-2252	Red Lake

Region Service Centre, G. M. Fenelon, Box 850, Dryden Phone (807) 937-4402
Dryden Forest Station, T. R. Myland, Box 90, Wabigoon Phone (807) 938-6326

KENORA DISTRICT

Box 5080, 808 Robertson St., Kenora
Ont P9N 3X9.... Phone (807) 468-9841

D. B. McGregor ...	District Manager
R. G. McCue	Administration
D. Philippi.....	Field Services
G. K. Winterton ...	Fish & Wildlife
W. H. Mills	Forests
T. J. Lunny	Lands
R. W. Paterick	Parks

SIOUX LOOKOUT DISTRICT

Box 309, Sioux Lookout
Ont P0V 2T0 Phone (807) 737-1140

A. J. Stewart	District Manager
W. L. Bertrand	Administration
H. D. Morrison	Field Services
A. A. Martin	Fish & Wildlife
J. M. McIntyre	Forests
F. E. Brown	Lands & Parks

RED LAKE DISTRICT

Box 323, Red Lake,
Ont P0V 2M0 ... Phone (807) 727-2531

E. W. Everley	District Manager
B. A. Larkin	Administration
B. A. Sandilands ..	Fish & Wildlife
P. R. Gagnon	Forests
T. E. Campbell	Field Services
E. R. Keast	Lands

FORT FRANCES DISTRICT

922 Scott Street, Fort Frances
Ont P9A 1J4 Phone (807) 274-5337

J. K. Cleaveley	District Manager
B. Y. Katerick	Administration
S. E. Cameron	Field Services
E. J. Swift	Fish & Wildlife & Parks

C. E. Horne..... Lands

DRYDEN DISTRICT

Box 3000, Ontario Govt Bldg, Dryden
Ont P8N 3B3 ... Phone (807) 223-3341

H. P. Endress	District Manager
J. Hamilton	Administration
A. MacDonald	Field Services
R. W. Taylor	Forests
H. Gibbard	Fish & Wildlife
D. Lindstrom	Lands & Parks

IGNACE DISTRICT

Box 448, Ignace
Ont P0T 1T0 Phone (807) 934-2233

T. E. Dodds.....	District Manager
W. A. Brunton	Administration
P. R. Croskery	Fish & Wildlife
B. Ferguson	Forests
J. D. Bond.....	Field Services
P. J. Pincombe....	Lands, Parks

NORTH CENTRAL REGION

R. A. Baxter	Regional Director	Box 5000, Ontario Government Building
L. M. Affleck.....	Deputy Reg Director	435 James St. South, Thunder Bay 'F'
W. Hendry	Deputy Reg Director	Ont P7C 5G6 ... Phone (807) 475-1261
J. D. Chadwick.....	Admin Co-ord	1221
R. T. Thomson	Biologist	1231
A. B. Johnson	Fire Mgt Officer ..	1241
J. T. Rudolph	Forester.....	1251
A. W. Currie	Parks-Rec Co-ord .	1281
		R. B. Adamson.... Engineer..... 1301
		D. J. Murray Lands Co-ord .. 1321
		K. G. Fenwick Geologist .. 1331

Dorion Trout Rearing Station, F. S. Watson	Phone (807) 857-2322
Regional Fire Centre, L. R. Hutchinson	Phone (807) 475-1405
Thunder Bay Forest Station, A. Wynia.....	Phone (807) 577-6409

THUNDER BAY DISTRICT

Box 5000, Thunder Bay 'F'
 Ont P7C 5G6 ... Phone (807) 475-1501
 D. E. McHale

District Manager

B. G. Griffin

Administration

R. A. Lessard

Field Services

H. D. Howell

Fish & Wildlife

R. G. Klein

Forests

T. J. Leveque

Parks & Rec

J. W. Suttie.....

Lands

ATIKOKAN DISTRICT

108 Saturn Avenue, Atikokan
 Ont P0T 1C0 Phone (807) 597-6971
 A. M. Harjula

District Manager

B. A. Prince

Administration

R. N. Boyle

Engineering Services

B. H. Gibson.....

Fish & Wildlife

A. G. Dougall

Forests

F. J. Wilson

Parks

M. Horan

Fire Control

TERRACE BAY DISTRICT

Box 280, Terrace Bay,
 Ont P0T 2W0 ... Phone (807) 825-3205
 P. A. Strassburger. District Manager
 G. K. Sidhu

Administration

R. R. Cockerline...

Field Services

J. A. Chappel

Fish & Wildlife

T. B. Scott

Lands & Parks

Manitouwadge Work Centre
 Box 309, Manitouwadge
 Ont P0T 2C0 Phone (807) 826-3225

L. Skinkle

Forests

C. J. Currie

Fire Control

GERALDTON DISTRICT

Box 640, Geraldton,	
Ont P0T 1M0 ...	Phone (807) 854-1030
E. H. Stone	District Manager
L. S. Morrow	Administration
E. P. Herrington...	Field Services
W. J. Cook	Fish & Wildlife
D. Jovic	Forests
A. Hoshino	Lands & Parks

NIPIGON DISTRICT

Box 970, Nipigon	
Ont P0T 2J0	Phone (807) 887-2120
G. O. Koistinen ...	District Manager
M. Wilson	Administration
W. R. Doyon	Field Services
L. Townes	Fish & Wildlife
G. Marek	Forests
D. Bean	Lands & Parks

NORTHERN REGION

G. P. Elliott Regional Director
L. H. Lingenfelter . Deputy Reg. Director
R. I. Thompson ... Admin Co-ord
J. Young Biologist
H. I. Mattson Parks & Rec Co-ord
J. S. Dougan Personnel Co-ord
C. Roswalka Safety Officer
 4 Govt Rd E, Kirkland Lake
 Ont P2N 1A1 ... Phone (705) 567-5421
H. V. Lovell Res Geologist
G. Koleszar Mining Recorder
Swastika Forest Station, L. J. Forcier

Hill Lake Trout Rearing Station, P. Graf

Box 3000, 140 Fourth Ave., Cochrane,
Ont P0L 1C0 Phone (705) 272-4287
D. W. Schafer..... Deputy Reg Director
 60 Wilson Avenue, Timmins,
 Ont. P4N 2S7 ... Phone (705) 267-1401
W. E. Belisle..... Fire Management
W. O. Mackasey .. Mineral Res Co-ord
F. J. Wilson Lands Co-ord
R. C. Barty Eng Services Co-ord
T. Isherwood Forester
M. S. Paradis Engineer
..... Phone (705) 642-3255
..... Phone (705) 544-2834

COCHRANE DISTRICT

Box 730, 2 Third Ave, Cochrane
Ont P0L 1C0 Phone (705) 272-4365
G. A. Wright District Manager
G. Nantel Administration
A. C. Hutchinson.. Field Services
W. Therriault Outdoor Rec
J. Starr Forests
F. Wright Lands

CHAPLEAU DISTRICT

34 Birch Street, Chapleau
Ont P0M 1K0 ... Phone (705) 864-1710
R. Cleroux District Manager
O. E. Crawford Administration
J. R. Russell Field Services
G. A. Block Fish & Wildlife
P. K. Bidwell..... Forests
J. P. Dick Lands
G. W. Dingee Parks & Rec

GOGAMA DISTRICT

Box 129, Gogama,
Ont P0M 1W0 ... Phone (705) 894-2000
C. Dionne District Manager
R. Fink Administration
M. Sitts Field Services
W. Sinclair Fish & Wildlife
C. Mason Forests
D. Stewart Lands & Parks

HEARST DISTRICT

631 Front St., Hearst
Ont P0L 1N0 Phone (705) 362-4346
C. E. Emblin District Manager
W. C. Trowsse Administration
L. G. Woods Field Services
S. St. Jules Fish & Wildlife
D. Stillar Forests ... 362-4264
M. J. Girouard Lands & Parks

KAPUSKASING DISTRICT

6 Government Road, Kapuskasing,
Ont P5N 2W4 ... Phone (705) 335-6191
R. G. Lightheart ... District Manager
L. Keller Administration
R. Carriere Field Services
C. Jessop Fish & Wildlife
K. Buck Forests
D. Miller Lands & Parks

KIRKLAND LAKE DISTRICT

Box 129, Swastika,
Ont P0K 1T0 Phone (705) 642-3222
J. E. Hamilton District Manager
G. E. Allick Administration
R. Landry Field Services
L. Chamberlin Fish & Wildlife
B. I. Thompson ... Forests
J. A. Colquhoun... Lands
W. B. Hill Parks

TIMMINS DISTRICT

896 Riverside Drive, Timmins,
Ont P4N 3W2 ... Phone (705) 267-7951
A. F. Papineau District Manager
V. A. Mathieu Administration
D. E. Shewn Field Services
T. Corbett Fish & Wildlife
D. F. Jefferson.... Forests
C. R. Biggar Lands & Parks

MOOSONEE DISTRICT

Box 190, Moosonee,
Ont P0L 1Y0 Phone (705) 336-2987
S. Toole District Manager
G. N. Sanderson .. Administration
G. F. McAuley Field Services
J. P. Prevett Biologist

NORTHEASTERN REGION

W. G. Cleaveley	Regional Director	199 Larch Street, Sudbury
D. J. Vance	Deputy Reg Director	Ont P3E 5P9 Phone (705) 675-4120
R. M. Christie	Deputy Reg Director	V. C. Miller Mining Recorder
J. C. Kindness	Admin Co-ord	J. C. Wilson Mineral Co-ord
C. H. Bennett	Personnel	
A. W. McClellan	Cons Auth Prg-Supr	J. L. Canfield Fire Mgmt Co-ord
D. Jodouin	Mining Lands Admin	J. R. Chevalier Biologist
P. E. Giblin	Geologist 566-2580 Sault Ste. Marie (705)	H. Walsh Engineer
M. V. St. Jules	Mining Recrdr 254-6884	W. C. Stevens Forester
G. M. Bennett	Geologist 942-1414	E. A. Wright Lands Co-ord
Tarentorus Trout Rearing Station, D. V. Storms (S.S. Marie)		C. Clark Parks-Rec Co-ord
North Bay Trout Rearing Station, B. A. Marchant (North Bay)		Phone (705) 253-8953
Sandfield Fish Hatchery, G. Clarke (Espanola)		Phone (705) 663-2311
		Phone (705) 859-3340
SAULT STE. MARIE DISTRICT		SUDBURY DISTRICT
Box 130, 69 Church St, S.S. Marie		Box 3500, Stn A, Sudbury
Ont P6A 5L5 Phone (705) 949-1231		Ont P3A 4S2 Phone (705) 522-7823
J. H. Sellers	District Manager	J. A. Simpson District Manager
H. J. Smith	Administration	M. H. Jackson Administration
L. G. Bell	Fire Control	F. C. Shaver Field Services
E. A. Pozzo	Fish & Wildlife	G. J. Haarmeyer Fish & Wildlife
F. Janser	Forests	D. R. Potvin Forests
I. J. Valentine	Lands	M. K. Smith Lands
L. R. Davey	Parks	D. H. Brunette Parks
NORTH BAY DISTRICT		BLIND RIVER DISTRICT
Box 3070, North Bay,		Box 190, 62 Queen St, Blind River,
Ont P1B 8K7 Phone (705) 474-5550		Ont P0R 1B0 Phone (705) 356-2234
E. Rogers	District Manager	D. L. Hagar District Manager
G. E. Lacelle	Administration	F. McWhinnie Administration
K. T. Fuller	Field Services	W. J. Davis Field Services
M. R. Wolfe	Fish & Wildlife	S. B. Woodside Fish & Wildlife
D. E. Honeyborne	Forests	C. F. Husk Forests
R. V. Coulombe	Lands	R. H. Wood Lands
H. J. Edmundson	Parks	G. W. Connell Parks
WAWA DISTRICT		ESPAÑOLA DISTRICT
Box 1160, Wawa		Box 1340, 148 Fleming St, Espanola
Ont P0S 1K0 Phone (705) 856-2396		Ont P0P 1C0 Phone (705) 869-1330
W. J. Straight	District Manager	E. N. Arbuckle District Manager
Mrs. J. M. Kern	Administration	Mrs. S. Catling Administration
A. J. Bull	Field Services	D. R. Hughson Outdoor Rec
E. R. Thomas	Fish & Wildlife	J. F. Christian Forests
C. K. Sumi	Forests	D. C. Carnochan Lands
E. V. Uhler	Lands	
J. T. Stott	Parks	
TEMAGAMI DISTRICT		
Box 38, Temagami		H. G. Smith Field Services
Ont P0H 2H0 Phone (705) 569-3622		W. P. Brook Forests
R. G. McGee	District Manager	R. B. Sinclair Lands & Parks
W. W. Hicks	Administration	S. T. Flemming Fish & Wildlife

ALGONQUIN REGION

K. K. Irizawa	Regional Director	Box 9000, Brendale Square, Huntsville, Ont P0A 1K0..... Phone (705) 789-9611	
A. E. Walroth	Deputy Reg Director		
J. H. Lever	Deputy Reg Director		
J. Carswell	Admin Co-ord	H. J. Henry	Forester
C. W. Douglas	Biologist	W. J. Logan	Geologist
A. P. Stephen	Engineer	D. J. Johnstone ...	Lands Co-ord
B. Petman	Fire Mgt Officer	J. A. van der Meer .	Parks & Rec Co-ord
Pembroke Trout Rearing Station, A. G. Moore	Phone (613) 687-5935		
Skeleton Lake Fish Hatchery, M. E. Beathune	Phone (705) 769-3731		

PARRY SOUND DISTRICT

4 Miller Street, Parry Sound	
Ont P2A 1S8	Phone (705) 746-4201
W. J. Lovering	District Manager
G. F. Walter	Administration
C. R. Mumford	Field Services 5825
J. A. Macfie	Fish & Wildlife
G. C. Felton	Forests
J. A. Shalla	Parks
L. A. Connelly	Lands

ALGONQUIN PARK DISTRICT

Box 219, Whitney	
Ont K0J 2M0 ...	Phone (705) 637-2780
T. J. Millard	Park Supt, Dist. Man.
E. A. Dayment	Administration
R. W. Stewart	Fish & Wildlife
D. F. George	Forests
J. E. Elliott	Lands
(vacant).....	Alg Park Operations
B. A. Norris	Field Services

BRACEBRIDGE DISTRICT

Box 1138, Bracebridge,	
Ont P0B 1C0....	Phone (705) 645-5244
J. H. Lever	District Manager
J. S. Purves	Administration
J. T. Matthews	Field Services
D. M. Brooks	Fish & Wildlife
G. K. Schultz	Forests
J. A. Bryant	Lands
R. G. Ellis	Parks

THE LESLIE M. FROST NATURAL RESOURCES CENTRE

Dorset, Ont P0A 1E0. Phone (705) 766-2451.

G. A. Hamilton....	Director
S. A. Williams	A/Plan & Mgmt Supt
H. Curnow	Operations Supt
D. L. Lillow	Field Services
W. A. Chambers ..	Finance & Admin
T. G. Wright	Food Services
H. J. Barnhart	Maint Foreman

BANCROFT DISTRICT

Box 500, Bancroft,	
Ont K0L 1C0....	Phone (613) 332-3940
M. P. Barker	District Manager
F. Buchan.....	Administration
M. F. Rush	Field Services
V. B. Collins	Fish & Wildlife
F. J. Walker	Forests
D. W. McLennan ..	Parks
O. J. Fleming	Lands
H. Meyn	Geologist

PEMBROKE DISTRICT

Box 220, Riverside Drive, Pembroke,	
Ont K8A 6X4....	Phone (613) 732-3661
L. J. Haas	District Manager
A. H. Plummer	Administration
C. R. Buske	Field Services
A. E. Armstrong ...	Fish & Wildlife
W. W. Wahl	Forests
E. N. McKenzie ...	Lands & Mines
G. D. Yarranton ...	Parks

MINDEN DISTRICT

Minden,	
Ont K0M 2K0 ...	Phone (705) 286-1521
D. D. White	District Manager
R. E. Raby.....	Administration
T. C. Russell.....	Field Services
D. G. Atkinson	Fish & Wildlife
B. G. Cross	Forests
J. E. Dewey.....	Lands & Parks

Specialists:

D. C. Preston (acting)	Forestry
M. E. Buss	Fish & Wildlife
C. K. Macdonald ..	Recreation
J. A. Stocking	Lands
B. A. Martin	A/Visitor Services

EASTERN REGION

J. R. Oatway	Regional Director	Provincial Government Building, Concession Road, Kemptville
D. E. Gage	Deputy Reg Director	Ont K0G 1J0
S. R. Hamilton	Deputy Reg Director	Phone (613) 258-3413
W. B. Bowles	Admin Co-ord	M. A. Hart
D. G. Watton	Biologist	Personnel Officer
R. W. Beecher	Cons Auth Prg-Spvr	W. G. Maslen
J. R. Stork	Engineer	Lands Co-ord
P. E. Anslow	Forester	W. P. Barber
		Parks & Rec Co-ord
		Dr. M. A. Klugman
		Mines Co-ord
		J. W. Lloyd
		Field Services Co-ord

Codrington Fish Hatchery, A. H. Draves	Phone (613) 475-2512
White Lake Fish Hatchery, K. Steele	Phone (613) 335-2115
Westport Fish Hatchery, G. E. Raine	Phone (613) 273-2106
G. Howard Ferguson Forest Station, A. J. Campbell	Phone (613) 258-3413

TWEED DISTRICT

Metcalfe Street, Tweed, Ont K0K 3J0	Phone (613) 478-2330
W. Vonk	District Manager
G. J. O'Hearn	Administration
W. F. Caverly	Lands
J. C. Williamson	Outdoor Rec
W. M. Fasken	Forests
W. J. Miller	Field Services
Dr. P. W. Kingston	Res Geologist

CARLETON PLACE DISTRICT

Lanark Office, Box 239, Lanark, Ont K0G 1K0	Phone (613) 259-2942
J. R. Bailey	District Manager
R. E. Brousseau	Administration
J. D. McCready	Forests
D. G. Kennedy	Field Services
K. J. Schonauer	Parks & Lands

OTTAWA OFFICE

Ramsayville, Ont K0A 2Y0	Phone (613) 822-2525
R. H. Jones	Outdoor Rec
R. M. Rogers	Lands
M. A. MacDonald	Mineral Resources

NAPANEE DISTRICT

1 Richmond Blvd, Napanee Ont K7R 3S3	Phone (613) 354-2173
R. G. Bailey	District Manager
R. A. Armstrong	Administration
W. A. Perrin	Forests, Field Serv
R. G. Baldwin	Fish & Wildlife
R. Griffiths	Lands
J. C. Matheson	Parks
S. Thatcher	Mineral Resources

BROCKVILLE DISTRICT

101 Water St West, Brockville Ont K6V 5Y8	Phone (613) 342-8524
C. A. Haxell	District Manager
D. G. Gilmer	Administration
G. L. Penney	Fish & Wildlife
W. Hardy	Forests
G. Tabobondune	Field Services & Lands & Parks
A. Young	Mineral Resources

CORNWALL DISTRICT

Box 1749, 113 Amelia St, Cornwall Ont K6H 5V7	Phone (613) 933-1774
J. R. Morin	District Manager
W. J. Humphrys	Administration
W. R. Lannin	Fish & Wildlife
B. W. Warwick	Forests
K. E. Green	Field Services, Parks
B. W. McCue	Lands

CENTRAL REGION

R. J. Burgar	Regional Director ..	295 10670 Yonge Street, Richmond Hill
A. D. Latornell	Dep Reg Director ..	297 Ont L4C 3C9 Phone (416) 884-9203
F. G. Shaw	Dep Reg Director ..	290 M. Narain Geologist
H. Tjoelker	Admin Co-ord	208 L. G. D. Thompson Mines Co-ord 232
J. B. Dawson	Biologist	282 M. G. Lewis Service Engineer . 216
J. J. McFadden ...	Cons Auth Co-ord ..	206 J. T. Griffin Parks-Rec Co-ord 299
R. N. Staley	Forester.....	289 J. F. Gosnell..... Lands Co-ord 234

Midhurst Forest Station, Midhurst, C. R. Groves	Phone (705) 728-6599
Orono Forest Station, Orono, W. R. Bunting.....	Phone (416) 983-9147
Ontario Tree Seed Plant, Angus, B. D. Swaile	Phone (705) 424-5311
Deer Lake Fish Hatchery, R.R. 1, Havelock, G. T. Cation.....	Phone (705) 778-3391
Ringwood Fish Hatchery, C. N. Core	Phone (416) 640-6204

MAPLE DISTRICT

Maple, Ont L0J 1E0	Phone (416) 832-2761	322 Kent St West, Lindsay, Ont K9V 4T7 Phone (705) 324-6121
I. B. Earl	District Manager....	203 C. R. Gray District Manager
W. B. Pottelberg ..	Administration	300 A. V. Kaufman Administration
D. M. Hogg	Fish & Wildlife.....	211 P. A. Smith Fish & Wildlife
C. D. Simpson	Lands.....	208 T. Tworzyanski.... Forests, Fld Serv
M. Charbonneau ..	Parks	240 L. C. Selby Lands & Minerals
Si Dae Kim	Forests, Fld Serv...	224 R. W. Allen Parks
R. N. Kervin	Mineral Resources .	210

HURONIA DISTRICT

Midhurst, Ont L0L 1X0	Phone (705) 728-2900
W. D. Mansell.....	District Manager
D. H. Poff	Administration
A. W. Smith	Fish & Wildlife
R. O. Brandes	Forests
D. R. MacArthur....	Services
J. R. Winters	Parks
W. D. Mansell.....	Wasaga Project

LINDSAY DISTRICT

		322 Kent St West, Lindsay, Ont K9V 4T7 Phone (705) 324-6121
I. B. Earl	District Manager....	203 C. R. Gray District Manager
W. B. Pottelberg ..	Administration	300 A. V. Kaufman Administration
D. M. Hogg	Fish & Wildlife.....	211 P. A. Smith Fish & Wildlife
C. D. Simpson	Lands.....	208 T. Tworzyanski.... Forests, Fld Serv
M. Charbonneau ..	Parks	240 L. C. Selby Lands & Minerals
Si Dae Kim	Forests, Fld Serv...	224 R. W. Allen Parks
R. N. Kervin	Mineral Resources .	210

CAMBRIDGE DISTRICT

		Box 2186, Cambridge,
		Ont N3C 2W1 Phone (519) 658-9355
		W. R. Catton District Manager
B. J. DeGunst.....	Administration	
G. M. Tupling	Fish & Wildlife	
S. Yorgan	Forest Mgmt	
B. L. Houck	Parks	
D. A. Routly	Lands & Minerals	

NIAGARA DISTRICT

Box 1070, Highway No. 20, Fonthill, Ont L0S 1E0	Phone (416) 892-2656
J. E. Dickenson ...	District Manager
A. J. Vos	Administration
E. A. Kraker	Forests, Fld Serv
P. J. Drysdale.....	Outdoor Recreation
J. Z. Fraser	Lands & Minerals

SOUTHWESTERN REGION

N. D. Patrick	Regional Director	1106 Dearness Drive, London,
J. M. Halpenny	Deputy Reg Director	Ont N6E 1N9 ... Phone (519) 681-5350
(vacant)	Deputy Reg Director	
D. W. Munch	Admin Co-ord	S. Keen
H. A. Orr	Biologist	Mineral Resources
R. J. McClure	Cons Auth Prg-Spvr	J. A. Fingland
P. H. Crook	Engineer	Lands Co-ord
E. F. Johnston	Forester	E. E. Murphy
		Parks & Rec Co-ord

Chatsworth Fish Hatchery, P. H. Hartman	Phone (519) 794-2340
Wiarton Fish Hatchery, C. Core	Phone (519) 534-0770
Normandale Fish Hatchery, W. A. Hooper	Phone (519) 426-3142
St. Williams Forest Station, R. E. Laupert	Phone (519) 586-3576
Petroleum Resources Lab, London, P. Palonen	Phone (519) 433-8431

CHATHAM DISTRICT

Box 1168, 435 Grand Ave West, Chatham,	
Ont N7M 5L8 ... Phone (519) 354-7340	
J. D. Parker	District Manager
H. Lehmann	Admin, Eng Services
H. Manson	Fish & Wildlife
K. Yaraskavitch ...	Forests
W. McNab	Parks
H. W. Rowe	Lands, Min Resources
G. Crewe	Petroleum Resources

OWEN SOUND DISTRICT

611 Ninth Ave East, Owen Sound,	
Ont N4K 3E4 ... Phone (519) 376-3860	
R. W. Tippett	District Manager
M. Gobeil	Administration
S. A. Munroe	Fish & Wildlife
V. W. Fisk	Forests
R. J. Manley	Lands, Min Resources
P. H. Baxter	Parks
E. G. Walker	Fire, Eng Services

AYLMER DISTRICT

353 Talbot Street West, Aylmer	
Ont N5H 2S8 ... Phone (519) 773-9241	
P. R. Davidson	District Manager
D. N. Stephens	Administration
G. R. Austin	Fish & Wildlife
W. C. Gilmore	Forest Resources
D. G. Ward	Parks, Lands,
	Mineral Resources

SIMCOE DISTRICT

645 Norfolk Street North, Simcoe,	
Ont N3Y 3R2 ... Phone (519) 426-7650	
M. F. McKenzie	District Manager
A. McGarrity	Administration
J. M. Collins	Fish & Wildlife
D. A. Scott	Forests
T. L. Beck	Parks & Rec
W. L. Edwards	Lands, Eng Services,
	Mineral Resources

WINGHAM DISTRICT

R.R. 5, Wingham	
Ont N0G 2W0 ... Phone (519) 357-3131	
J. L. Hamill	District Manager
M. V. J. Sollars	Administration
W. A. Creighton ...	Parks, Fish, Wildlife
H. R. Lancaster ...	Forests
A. D. Carr	Lands & Minerals,
	Field Services

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ONTARIO

Ministry of
Natural
Resources

Hon. Alan W. Pope
Minister

W. T. Foster
Deputy Minister

Statistics

1982



Statistics 1982

A statistical supplement to the Annual Report of the Minister of Natural Resources for the year ending March 31, 1982

\$2.00



Ministry of
Natural
Resources

Hon. Alan W. Pope
Minister
W. T. Foster
Deputy Minister

Statistical Reports

Prepared by Branches

- 3 **Ministry of Natural Resources**
 - 4 Office of Deputy Minister
 - 5 Ministry Regions and Districts
- 7 **Forest Resources Group**
 - 7 Forest Resources Branch
 - 8 Ontario Tree Improvement and Forest Biomass Institute
 - 21 Timber Sales Branch
- 32 **Mineral Resources Group**
 - 32 Ontario Geological Survey
 - 38 Mineral Resources Branch
 - 41 Mining Taxation and OMEP Office
- 44 **Outdoor Recreation Group**
 - 44 Wildlife Branch
 - 49 Parks and Recreational Areas Branch
 - 61 Fisheries Branch
- 77 **Lands and Waters Group**
 - 77 Land Management Branch
 - 83 Surveys and Mapping Branch
 - 85 Office of Indian Resource Policy
 - 86 Land Use Co-ordination Branch
 - 88 Conservation Authorities and Water Management Branch
- 90 **Aviation and Fire Management Centre**
- 99 **Administration Division**
 - 100 Communications Services Branch
 - 101 Personnel Services Branch
 - 104 Energy/BILD Office
 - 105 Administrative Services Branch
 - 107 Legal Services Branch
- 114 **Finance, Planning and Evaluation Group**
 - 114 Financial Services Branch
 - 118 Internal Audit Services Branch
 - 119 Budget and Program Evaluation Branch
- 120 **Regions and Districts**
 - 120 Northwestern Region
 - 121 North Central Region
 - 122 Northern Region
 - 123 Northeastern Region
 - 124 Algonquin Region
 - 125 Eastern Region
 - 126 Central Region
 - 127 Southwestern Region

Cover Photo: MNR geologists examine oil shale core samples taken from more than 200 m below earth's surface at Nobleton, Ont.

MINISTRY OF NATURAL RESOURCES*

Hon. Alan W. Pope Minister of Natural Resources.

W. T. Foster..... Deputy Minister.

G. A. McCormack Assistant Deputy Minister, Northern Ontario.**
Northwestern Region
North Central Region
Northern Region
Northeastern Region
Aviation and Fire Management Centre

R. J. Burgar (acting) Assistant Deputy Minister, Southern Ontario.***
Algonquin Region
Eastern Region
Central Region
Southwestern Region

M. Mogford Assistant Deputy Minister, Administration.

MINISTERIAL AGENCIES

G. H. Ferguson, Q.C. Mining and Lands Commissioner.
R. F. Harrison General Manager, St. Clair Parkway Commission.
I. D. Bird General Manager, Algonquin Forest Authority.

* Main Office in Whitney Block, Parliament Buildings, Toronto, Ontario M7A 1W3.

** Box 5000, 435 James St. South, Thunder Bay 'F', Ontario P7C 5G6.

*** Maple, Ontario L0J 1E0.

OFFICE OF DEPUTY MINISTER

Room W-6320, Main Office. Telephone (416) 965-2704.

Deputy Minister	W.T. Foster.....	W-6320 . . . 2704
Administrative Assistant.....	Mrs. I. Mack	W-6320 . . . 5873
Science Adviser and Reserch Co-ordinator	Dr. M. F. Walmsley	W-6350 . . . 5720

POLICY CO-ORDINATION SECRETARIAT

Director.....	Mrs. M. B. Fordyce	W-6547 . . . 8422
Secretary.....	Mrs. M. Forbes.....	W-6540 . . . 8422
Outdoor Recreation Policy Officer.....	D. W. Simkin.....	W-6546 . . . 6712
Resource Products Policy Officer	E. E. Multamaki	W-6549 . . . 6712
Lands and Waters Policy Officer	L. A. Douglas	W-6545 . . . 6371
Special Products Policy Officer	J. M. Kearns	W-6550 . . . 6371
Recreation Analyst.....	J. D. Ross	W-6542 . . . 6712

MINISTRY REGIONS AND DISTRICTS

Areas in Square Kilometres*

NORTHWESTERN REGION

Dryden	11 961	
Fort Frances	10 847	
Ignace.....	11 463	
Kenora	14 188	
Red Lake	64 105	
Sioux Lookout.....	112 097	224 661
Pt. Rainy Lake	1 222	
Pt. Lake of the Woods	2 427	3 649
Total, Region		228 310

NORTHERN REGION

Chapleau	23 602	
Cochrane	30 715	
Gogama	7 752	
Hearst.....	25 245	
Kapuskasing	21 225	
Kirkland Lake.....	13 312	
Moosonee	215 741	
Timmins	7 899	345 491
Pt. Lake Abitibi	790	790
Total, Region		346 281

ALGONQUIN REGION

Algonquin Park ...	9 376	
Bancroft.....	4 239	
Bracebridge.....	6 454	
Minden	4 745	
Parry Sound.....	7 187	
Pembroke.....	7 306	39 307
Pt. Georgian Bay	3 875	3 875
Total, Region		43 182

SOUTHWESTERN REGION

Alymer	6 731	
Chatham.....	7 389	
Owen Sound	7 817	
Simcoe	2 818	
Wingham	6 889	31 644
Pt. Lake Huron and Lake Erie.....	30 950	
Pt. Lake St. Clair	673	31 624
Total, Region		62 268

NORTH CENTRAL REGION

Atikokan.....	11 321	
Geraldton.....	112 784	
Nipigon.....	25 574	
Terrace Bay	12 673	
Thunder Bay.....	28 451	190 803
Lake Nipigon	5 006	
Pt. Lake Superior.....	16 017	21 023
Total, Region		211 826

NORtheastERN REGION

Blind River	9 516	
Espanola	9 523	
North Bay.....	10 668	
Sault Ste. Marie...	7 912	
Sudbury	12 725	
Temagami	6 856	
Wawa	22 535	79 735
Pt. Lake Huron and Lake Superior .	25 298	
Lake Nipissing....	816	
Lake Wahnapitae..	145	26 259
Total, Region		105 994

EASTERN REGION

Brockville.....	3 496	
Carleton Place....	6 277	
Cornwall.....	5 594	
Napanee.....	6 537	
Tweed.....	6 605	28 509
Pt. Lake Ontario.....	4 333	4 333
Total, Region		32 842

CENTRAL REGION

Cambridge.....	7 141	
Huronia	6 550	
Lindsay.....	6 856	
Maple	4 812	
Niagara.....	2 670	28 029
Pt. Lake Ontario and Lake Erie.....	8 109	
Lake Simcoe	741	8 850
Total, Region		36 879

TOTALS

47 Districts.....	968 179	
12 Lakes	100 403	
Area of Ontario	1 068 582	

* August 19, 1980
Surveys and Mapping Branch

MINISTRY REGIONS AND DISTRICTS

Areas in Square Miles*

NORTHWESTERN REGION

Dryden	4,618	
Fort Frances	4,188	
Ignace	4,426	
Kenora	5,478	
Red Lake	24,751	
Sioux Lookout	43,281	86,742
Pt. Rainy Lake	472	
Pt. Lake of the Woods	937	1,409
Total, Region		88,151

NORTHERN REGION

Chapleau	9,113	
Cochrane	11,859	
Gogama	2,993	
Hearst	9,747	
Kapuskasing	8,195	
Kirkland Lake	5,140	
Moosonee	83,298	
Timmins	3,050	133,395
Pt. Lake Abitibi	305	305
Total, Region		133,700

ALGONQUIN REGION

Algonquin Park	3,620	
Bancroft	1,637	
Bracebridge	2,492	
Minden	1,832	
Parry Sound	2,775	
Pembroke	2,821	15,177
Pt. Georgian Bay	1,496	1,496
Total, Region		16,673

SOUTHWESTERN REGION

Alymer	2,599	
Chatham	2,853	
Owen Sound	3,018	
Simcoe	1,088	
Wingham	2,660	12,218
Pt. Lake Huron and Lake Erie	11,950	
Pt. Lake St. Clair	260	12,210
Total, Region		24,428

NORTH CENTRAL REGION

Atikokan	4,371	
Geraldton	43,546	
Nipigon	9,874	
Terrace Bay	4,893	
Thunder Bay	10,985	73,669
Lake Nipigon	1,933	
Pt. Lake Superior	6,184	8,117
Total, Region		81,786

NORTHEASTERN REGION

Blind River	3,674	
Espanola	3,677	
North Bay	4,119	
Sault Ste. Marie	3,055	
Sudbury	4,913	
Temagami	2,647	
Wawa	8,701	30,786
Pt. Lake Huron and Lake Superior	9,767	
Lake Nipissing	315	
Lake Wahnapitae	56	10,138
Total, Region		40,924

EASTERN REGION

Brockville	1,350	
Carleton Place	2,423	
Cornwall	2,160	
Napanee	2,524	
Tweed	2,550	11,007
Pt. Lake Ontario	1,673	1,673
Total, Region		12,588

CENTRAL REGION

Cambridge	2,757	
Huronia	2,529	
Lindsay	2,647	
Maple	1,858	
Niagara	1,031	10,822
Pt. Lake Ontario and Lake Erie	3,131	
Lake Simcoe	286	3,417
Total, Region		14,239

TOTALS

47 Districts	373,816	
12 Lakes	38,766	
Area of Ontario	412,582	

* August 19, 1980
Surveys and Mapping Branch

FOREST RESOURCES GROUP

Room W-3623, Main Office. Telephone (416) 965-2785.

Executive Co-ordinator	A. H. Peacock	W3623 ... 4319
Secretary	Mrs. I. Hart.....	4319
Chief Forester	K. A. Arsm...n.....	W3621 ... 3040
Chief Forest Economist	L. S. Lambert.....	W3630 ... 2785

FOREST RESOURCES BRANCH

Director.....	Dr. R. J. Bourchier.....	W3645 ... 2787
Group Analyst	D. H. Cope	W3650 ... 2575

ADMINISTRATIVE SECTION

Administration Officer	L. P. Comeau.....	W3622 ... 2731
Administration Assistant	W. S. Howson	W3625 ... 2785
Analyst & Contract Specialist	A. L. Wells	W3625 ... 2785
Editor & Publications Co-ordinator	S. Burzotta.....	W3629 ... 2785

FOREST PRODUCTION & CONTROL SECTION

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Tree Seeds Genetics Unit, Spvr.....	R. M. Rauter.....	W3652 ... 2575
Forest Production Policy Unit, Spvr....	J. Cary	W3651 ... 2575
Silviculture Information Assessment and Development Spec.....	M. Chaudhry	W3649 ... 2575
Forest Production Analyst	J. F. W. Gourlay.....	W3645A .. 2785
Private Land Forestry Unit, Spvr.....	G. Sinclair	W3627 ... 2785
Private Land Incentives Co-ordinator	K. Reese.....	W3648 ... 2575
Stock Production Unit, Spvr.....	V. Sadreika	W3647 ... 2575
Soil and Plant Analyst.....	H. Tiemann	W3647 ... 2785
Tree Distribution Co-ordinator.....	R. K. Crawford.....	W3647 ... 2785
Silviculture Data Controller	G. Brown	W3627 ... 2575

MECHANIZATION

Silviculture Equipment Develop- ment Co-ordinator	A. Citro.....	Maple 832-2761
Design Assistant.....	N. Mishrigi.....	2761
Equipment Developer	R. Foote	2761
Equipment Developer	C. W. Hopkinson.....	2761
Pest Control Section.....	Dr. R. Carrow	2761
Forest Pathologist.....	B. McGauley	2761
Forest Entomologist	C. S. Kirby	2761
Herbicide Specialist	Dr. R. A. Campbell.....	2761
Pesticide Applications	S. A. Nicholson	2761

ONTARIO TREE IMPROVEMENT AND FOREST BIOMASS INSTITUTE

Maple Ontario, L0J 1E0. Telephone (416) 832-2761.

General Manager.....	D. P. Drysdale	832-2761
Executive Officer.....	S. R. A. Gourlay	2761
Photographer.....	J. Robinson	2761

TREE IMPROVEMENT AND BIOMASS SECTION

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J. Hood		2761
H. Anderson		2761
Dr. D. Fayle		2761
P. Jaciw		2761
D. Skeates.....		2761

FOREST ECOLOGY AND SILVICULTURE SECTION

Principal Scientist.....	Dr. D. Burger	2761
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Dr. C. Glerum.....		2761
A. Beckwith.....		2761
R. Leech.....		2761
Y. T. Kim.....		2761
Dr. F. Raymond		2761
G. Stroempl.....		2761

PLANTING STOCK DISTRIBUTION

Bare Root Nursery Stock	
conifers	65,814,758
hardwoods	3,633,392
Total	69,448,150
Container Stock	13,950,538
GRAND TOTAL	83,398,688
Production Targets seeded	81,858,500

FOREST TREE PRODUCTION BY MINISTRY NURSERIES

Number of trees in years ending March 31

Year	Bare Root	Container	Total
1972	76,597,391	5,079,258	81,676,649
1973	68,161,039	2,862,114	71,023,153
1974	65,362,395	3,402,228	68,764,623
1975	59,794,450	3,148,406	62,942,856
1976	50,944,733	5,346,866	56,291,599
1977	45,981,122	4,291,764	50,272,886
1978	48,291,842	5,461,375	53,753,217
1979	52,928,125	5,487,210	58,415,335
1980	61,453,461	7,944,817	69,398,278
1981	65,360,243	10,496,839	75,857,082
1982	69,448,150	13,950,538	83,398,688

USE OF NURSERY STOCK IN YEAR ENDING MARCH 31, 1982

Use	Bare Root	Container	Total
Crown land & Agreement			
Forest	44,874,921	13,950,538	58,825,459
*WIA	9,522,782	—	9,522,782
Other Private Land	13,449,912	—	13,449,912
Education or Science	655,510	—	655,510
Miscellaneous	945,025	—	945,025
TOTAL	69,448,150	13,950,538	83,398,688

*The Woodlands Improvement Act.

TREE PRODUCTION BY SPECIES

Number of trees in years ending March 31

Species	1978	1979	1980	1981	1982
White Spruce	14,440,212	13,704,591	16,687,027	14,384,928	16,394,578
Black Spruce.	8,507,184	13,170,734	11,800,627	17,365,106	17,155,688
Red Pine	7,011,779	8,627,330	8,215,238	8,534,677	7,493,071
Jack Pine	15,114,368	12,831,439	18,832,062	19,143,238	25,830,821
White Pine.	2,404,671	3,694,571	5,181,787	6,431,427	6,451,959
White Cedar	1,185,767	493,254	1,461,566	2,381,005	2,806,775
Scotch Pine.	984,600	893,316	1,483,794	1,500,375	1,545,425
Silver Maple.	514,600	584,853	423,958	563,229	240,785
Norway Spruce	387,904	902,881	1,158,639	1,367,267	1,093,919
Carolina Poplar.	479,211	487,769	532,077	583,863	532,351
Black Walnut.	360,775	341,587	301,305	459,275	364,000
White Ash	409,964	505,194	222,264	256,239	283,281
European Larch.	180,502	154,055	175,874	489,290	275,202
Yellow Birch	160,400	205,827	41,440	80,144	116,400
Red Oak	160,208	398,192	499,244	258,284	316,191
Black Locust.	145,708	212,583	190,235	203,250	164,475
Tamarack.	9,450	28,238	255,211	143,777	309,506
Hemlock	118,049	130,456	529	68,746	272
Cottonwood	22,050	13,325	—	53,725	—
Hybrid Poplar					
Rooted	—	61,350	110,839	112,422	108,484
Unrooted	192,925	515,608	943,821	818,530	1,061,811
Japanese Larch.	433,625	7,000	253,366	156,965	293,631
Aspen, unrooted.	—	—	91,948	—	—
Other Species	529,265	451,182	535,427	501,320	560,063
Total.	53,753,217	58,415,335	69,398,278	75,857,082	83,398,688

TREES SUPPLIED FOR PLANTING ON PRIVATE LANDS

in years ending March 31

County or District	1978	1979	1980	1981	1982
Algoma	176,540	234,705	281,900	305,955	190,825
Brant	73,275	142,750	207,300	222,850	129,055
Bruce	110,675	119,385	282,953	194,197	278,020
Cochrane.....	277,750	482,720	560,600	705,480	1,072,250
Dufferin	232,335	325,915	486,250	507,385	470,585
Dundas	44,900	49,475	129,705	125,453	68,475
Durham**	286,345	378,775	480,901	479,450	538,150
Elgin.....	88,604	170,320	207,066	208,435	209,899
Essex	111,023	128,450	189,420	208,541	188,513
Frontenac	56,550	85,480	115,695	136,700	193,486
Glengarry.....	75,175	71,025	76,675	190,742	166,500
Grey	381,255	453,124	427,215	524,400	503,740
Haldimand.....	102,245	241,075	298,566	524,307	74,190
Haliburton.....	24,450	45,125	73,200	48,100	33,800
Halton	180,910	105,225	250,970	274,165	137,575
Hastings	98,210	126,125	172,443	169,042	317,973
Huron.....	150,922	234,575	185,406	273,100	198,264
Kenora	415,675	374,400	102,300	273,900	189,175
Kent	87,500	135,500	137,535	303,225	233,185
Lambton	108,275	87,990	178,900	192,941	239,577
Lanark	98,000	67,137	199,312	260,175	203,900
Leeds & Grenville	146,133	139,589	369,040	297,361	333,375
Lennox & Addington ..	61,550	58,775	126,175	107,775	128,350
Manitoulin.....	11,150	10,550	55,500	27,400	15,100
Middlesex	204,306	231,282	340,788	616,575	433,402
Muskoka	36,550	86,800	66,250	73,250	68,150
Niagara	181,339	235,858	299,162	366,493	365,481
Nipissing.....	25,225	130,500	98,125	41,925	60,770
Norfolk.....	102,000	2,610	32,600	1,100	411,302
Northumberland**	181,700	220,839	330,345	326,280	530,657
Ontario**	5,057	2,062	3,008	—	2,610
Ottawa-Carleton.....	164,392	101,225	396,699	300,615	252,310
Oxford	103,950	165,728	232,888	275,075	197,278
Parry Sound.....	78,650	147,275	273,600	338,250	188,650
Peel	136,630	233,487	295,543	289,669	265,910
Perth	122,545	83,198	200,053	177,450	135,535
Peterborough	113,338	228,231	195,967	202,400	133,920
Prescott.....	56,750	46,350	225,425	123,875	142,825
Prince Edward.....	55,200	75,070	79,000	86,825	71,650
Rainy River	200,350	51,625	83,675	97,325	101,750
Renfrew.....	212,728	339,094	262,425	420,025	229,550
Russell.....	63,476	61,600	182,200	207,150	174,655
Simcoe.....	606,435	837,865	1,044,115	1,268,225	1,143,650

**Totals do not reflect formation of the Regional Municipality of Durham.

County or District	1978	1979	1980	1981	1982
Stormont	33,785	36,225	84,518	138,703	50,100
Sudbury	305,700	254,612	372,482	465,222	415,335
Thunder Bay	98,191	141,875	133,675	418,325	113,325
Timiskaming	43,700	18,500	38,550	40,300	12,250
Victoria	103,549	154,615	250,207	283,922	278,930
Waterloo	71,900	118,450	267,950	170,052	111,100
Wellington	264,202	528,850	673,675	759,815	709,700
Wentworth	227,346	250,630	365,465	365,135	324,423
York	435,702	352,135	603,273	568,025	410,582
Durham Regional Municipality .....	.....	300	—	1,550	150
Total	7,634,143*	9,405,081*	13,026,690*	14,984,635*	13,449,912*

*Excluding W.I.A.

FOREST AREAS MANAGED BY THE MINISTER

in Acres at March 31, 1982

Agreement Holders	Term of Agreement	Added 1981-82	Released 1981-82	Total
GOVERNMENT OF CANADA				
National Capital Commission .	Apr. 1961-Mar. 2011	.....	.....	4,211.00
22 CONSERVATION AUTHORITIES				
Ausable Bayfield	Apr. 1964-Mar. 2004	.....	.....	*4,383.00
Cataraqui Region	Apr. 1971-Mar. 1996	.....	.....	*845.87
Catfish Creek	Apr. 1962-Mar. 2002	.....	.....	*629.00
Crowe Valley	Jan. 1963-Dec. 2003	.....	.....	200.00
Ganaraska	Apr. 1960-Mar. 2000	.....	.....	8,639.24
Grand River	Apr. 1961-Mar. 2000	.....	.....	*4,096.31
Lakehead Region	May 1958-Apr. 2008	.....	.....	*1,657.70
Long Point Regional	Apr. 1960-Mar. 2000	.....	.....	*6,326.58
Lower Thames Valley	Apr. 1964-Mar. 1984	.....	.....	300.00
Maitland Valley	Apr. 1955-Mar. 2005	.....	.....	849.00
Metropolitan Toronto & Region	Apr. 1975-Mar. 2000	.....	.....	*1,879.41
Moira River	Apr. 1978-Mar. 2000	.....	.....	*16,820.78
Napanee Region	Oct. 1954-Oct. 2004	.....	.....	*6,752.00
Niagara Peninsula	June 1963-Mar. 2003	.....	.....	186.00
North Grey Region	June 1958-June 2008	.....	.....	*7,123.23
Otonabee Region	Apr. 1976-Mar. 2002	.....	.....	3,620.20
Raison Region	Apr. 1971-Mar. 2001	.....	.....	340.00
Sauble Valley	Apr. 1960-Mar. 2002	.....	.....	*3,824.00
Saugeen Valley	Apr. 1960-Mar. 2002	.....	.....	*12,913.00
South Nation River	Apr. 1975-Mar. 2000	.....	.....	*7,593.14
St. Clair Region	May 1965-Apr. 1985	.....	.....	150.00
Upper Thames River	Apr. 1961-Mar. 2001	.....	.....	*3,368.76
Sub-Total .....		.....	.....	92,497.22

*Reconciliation adjustment

Agreement Holders	Term of Agreement	Added 1981-82	Released 1981-82	Total
9 TOWNSHIPS				
Bonfield	Apr. 1952-Mar.1982	.....	.....	60.00
Charlottenburgh	Apr. 1975-Mar. 1995	.....	.....	*192.00
Cramahe	Apr. 1963-Mar. 2003	.....	.....	162.00
Cumberland	July 1980-June 2030	250.00	.....	*918.44
Darlington	Apr. 1971-Mar. 1991	.....	.....	140.00
Galway & Cavendish	Terminated 81/5/01	.....	619.00	—
Machar	Sept. 1963-Aug. 1993	.....	.....	90.00
Mosa	Apr. 1963-Mar. 2003	.....	.....	144.00
Torbolton	Mar. 1953-Mar. 1983	.....	.....	430.80
Williamsburg	Apr. 1962-Mar. 2002	.....	.....	400.00
Sub-Total		250.00	619.00	2,537.24
19 COUNTIES				
Brant	Apr. 1960-Mar. 2000	.....	.....	*99.30
Bruce	Apr. 1962-Mar. 2002	.....	9.00	*15,081.33
Dufferin	Apr. 1971-Mar. 1991	.....	.....	*2,518.53
Grey	Apr. 1960-Mar. 2000	.....	.....	*8,605.25
Huron	Apr. 1960-Mar. 2000	.....	.....	*1,636.59
Kent	Apr. 1960-Mar. 2000	.....	.....	75.39
Lanark	Apr. 1980-Mar. 2000	.....	.....	*8,921.00
Leeds & Grenville	Apr. 1975-Mar. 1995	100.00	.....	*13,964.49
Lennox & Addington	Apr. 1960-Mar. 2000	.....	.....	*1,168.90
Middlesex	Apr. 1960-Mar. 2000	.....	.....	*2,404.00
Northumberland	Apr. 1961-Mar. 1981	.....	.....	*6,346.59
Oxford	Apr. 1961-Mar. 2000	.....	.....	*845.26
Peterborough	Apr. 1961-Mar. 1981	.....	.....	200.00
Prescott & Russell	May 1960-Apr. 2000	.....	2.00	*26,170.42
Renfrew	Apr. 1960-Mar. 2000	.....	.....	*16,061.99
Simcoe	Apr. 1960-Mar. 2000	.....	1.39	*26,095.88
Stormont, Dundas & Glengarry	Apr. 1975-Mar. 2000	119.49	.....	*7,463.00
Victoria	Nov. 1976-Mar. 2000	.....	.....	*9,376.93
Wellington	Apr. 1963-Mar. 1983	.....	.....	*1,288.50
Sub-Total		219.49	12.39	148,323.35
6 REGIONAL MUNICIPALITIES				
Durham	May 1960-Apr. 1980	.....	.....	*1,460.51
Halton	Apr. 1976-Mar. 2000	.....	.....	*1,562.43
Hamilton-Wentworth	Apr. 1961-Mar. 1981	.....	.....	966.64
Ottawa-Carleton	Apr. 1974-Mar. 2004	1,090.00	.....	*12,744.52
Waterloo	Apr. 1976-Mar. 2001	.....	.....	*591.21
York	Apr. 1977-Mar. 2007	.....	.....	*5,017.42
Sub-Total		1,090.00	.....	22,342.73
INDUSTRY				
Domtar	Apr. 1974-Mar. 1999	.....	.....	2,224.00
TOTAL 58 Managed Forest Areas		1,559.45	631.39	272,135.54

*Reconciliation adjustment

SILVICULTURAL OPERATIONS

Classification of cutover forest land in year ending March 31, 1982
 Areas in hectares (acres in light face)

	Crown Land	Forest Management Agreements	Total Crown Land	Agreement Forests	W.I.A.	Other Patent Lands	Total
Harvest Cut, evenaged management	146,928 363,066	25,366 62,681	172,294 425,747	79 195	134 331	30,280 74,823	202,787 501,096
Harvest Cut, unevenaged management	7,229 17,863	— —	7,229 17,863	827 2,044	988 2,441	15,773 38,976	24,817 61,324
TOTAL	154,157 380,929	25,366 62,681	179,523 443,610	906 2,239	1,122 2,772	46,053 113,799	227,604 562,420

SUMMARY OF SILVICULTURAL OPERATIONS

Areas in Hectares (Acres in light face) in year ending March 31, 1982

	Crown Land	Forest Management Agreements	Total Crown Land	Agreement Forests	W.I.A.	Sub-Total	Other Patient Lands	Total
REGENERATION								
Planting Bare Root Stock	21,762	799	22,561	504	5,263	28,328	3,145	31,473
53,775	1,974	55,749	1,245	13,005	69,999	7,771	77,770	
Planting Container Stock	5,742	615	6,357	88	174	6,619	15	6,634
14,189	1,520	15,709	217	430	16,356	37	16,393	
Planting Hybrid Poplar cuttings	31	—	31	6	15	52	—	52
Seeding	76	—	76	15	37	128	—	128
24,288	3,581	27,869	—	—	27,869	—	—	27,869
60,017	8,849	68,866	—	—	68,866	—	—	68,866
1,653	—	1,653	—	—	1,653	—	—	1,653
4,085	—	4,085	—	—	4,085	—	—	4,085
1,979	900	2,879	6	—	2,885	—	—	2,885
4,890	2,224	7,114	15	—	7,129	—	—	7,129
1,998	1,102	3,100	12	—	3,112	—	—	3,112
4,937	2,723	7,660	30	—	7,690	—	—	7,690
7,738	—	7,738	—	80	7,818	12	—	7,830
19,121	—	19,121	—	198	19,319	30	—	19,349
3,451	1,458	4,909	49	—	4,958	97	—	5,055
8,528	3,602	12,130	121	—	12,251	240	—	12,491
Total	68,642	8,455	77,097	665	5,532	83,294	3,269	86,563
169,618	20,892	190,510	1,643	13,670	205,823	8,078	213,901	
RE-TREATMENT.	2,027	236	2,263	143	1,867	4,273	—	4,273
5,009	583	5,592	353	4,613	10,558	—	—	10,558

CROWN LANDS TREATED

Areas in hectares (acres in light face) in years ending March 31

Silvicultural Operations	1978	1979	1980	1981	1982
REGENERATION					
Planting Bare Root					
Stock	17,203	18,529	19,830	18,786	22,561
	42,509	45,785	48,998	46,421	55,749
Planting Container					
Stock	2,372	2,280	3,860	4,829	6,357
	5,860	5,633	9,539	11,933	15,709
Planting Hybrid Poplar					
Cuttings.....	—	—	—	24	31
	—	—	—	59	76
Seeding					
28,791	23,548	24,251	47,296	27,869	
	71,145	58,189	59,926	116,868	68,866
Scarification					
4,709	4,013	2,392	3,241	1,653	
	11,637	9,917	5,911	8,009	4,085
Strip Cutting					
3,359	2,580	2,058	1,562	2,879	
	8,301	6,376	5,086	3,860	7,114
Seed Tree Cutting.....					
5,789	6,325	7,339	3,934	3,100	
	14,304	15,630	18,135	9,721	7,660
Shelterwood Cutting ...					
8,234	10,669	9,867	9,794	7,738	
	20,346	26,364	24,383	24,201	19,121
Clear Cutting.....					
2,125	2,771	2,266	6,202	4,909	
	5,251	6,847	5,598	15,325	12,130
Total.....					
	72,582	70,715	71,863	95,668	77,097
	179,353	174,741	177,576	236,397	190,510
RE-TREATMENT.....					
	8,982	3,435	2,072	7,981	2,263
	22,195	8,487	5,120	19,720	5,592
TENDING					
Hand Cleaning					
7,857	4,855	5,326	4,481	3,686	
	19,417	11,998	13,161	11,072	9,108
Herbicide Spraying.....					
13,795	16,955	13,156	25,404	19,668	
	34,089	41,896	32,509	62,774	48,600
Thinning Improvement					
Cuts					
17,273	12,853	8,511	8,209	6,679	
	42,683	31,761	21,032	20,286	16,504
Pruning					
811	661	695	853	618	
	2,003	1,633	1,717	2,108	1,527
Fertilization Drainage...					
183	188	172	166	163	
	451	464	424	410	403
Total.....					
	39,919	35,512	27,860	39,113	30,814
	98,643	87,752	68,843	96,650	76,142
SITE PREPARATION ...					
	41,895	42,834	49,061	51,057	53,289
	103,525	105,846	121,233	126,162	131,680
MARKING					
	46,572	50,243	50,607	43,390	38,954
	115,082	124,153	125,052	107,216	96,257
TOTAL AREA TREATED					
	209,950	202,739	201,463	237,209	202,417
	518,798	500,979	497,824	586,145	500,181

1981 SEED CROP BY SPECIES

	Volume Collected (hl)
Jack pine.....	17,801
White pine.....	1,334
Scotch pine.....	509
Red pine	20
Black spruce.....	1,862
White spruce.....	107
Black walnut.....	1,759
White cedar.....	44
Other species.....	164
Total.....	<u>23,600</u>

1981 SEED REGENERATION PROGRAMS

Direct seeding	697,797,000
Nursery stock production	378,163,000
Container stock production	26,702,000
Research and miscellaneous	24,353,000
Total viable seed	<u>1,127,015,000</u>

SEED IN STORAGE (ANGUS SEED PLANT)

No. of viable seeds (billion).....	5.671
No. of different species.....	80
Total weight (Kgm).....	25,372
Total value (million)	\$2.9

TREE SEED AREAS

Areas in hectares in bold face, acres below

	Black spruce	White spruce	White pine	Jack pine	Other	Total
Gene Pool.....	1,000	640	—	7,872	460	9,979
	2,470	1,592	—	19,443	1,152	24,643
Seed collection area	400	279	188	1,682	192	2,741
	988	690	464	4,155	475	6,770
Seed production area	77	178	24	92	102	473
	191	440	59	226	252	1,163
Seed orchard area	16	20	14	—	20	70
	39	49	34	—	49	171

1981-82 FORESTRY EXTENSION ACTIVITIES

Inquiries serviced.....	99,716
Field inspections.....	8,295
Advisory service plans prepared.....	926
Volume of timber marked—sawlogs (cu.ft) pulpwood (cords)	3,600,175 17,212
Youth groups serviced.....	325
Forestry instruction (hrs.) given	4,930

THE WOODLANDS IMPROVEMENT ACT

	No. of Agreements	Areas in Hectares (acres)	
New Agreements Activated in 1981-82	888	12,344	30,502
Agreements in effect to March 31, 1982	9,282	155,565	384,397
No. of trees planted	18	167	413
New Advisory Service Agreements 1981-82.	9,522,782		

STATUS OF FOREST MANAGEMENT PLANS, MARCH 31, 1982

Areas in Square Kilometres (Square Miles)	Forest Management Units							
	No.	Crown Area	No.	Company Area	No.	FMA Area	No.	Agreement Forests Area
Approved Standard Plans ...	33	107,371 41,456	5	51,555 19,906	—	—	39	787 304
Approved Standard Plans being revised.....	24	86,625 33,446	—	—	—	—	2	109 42
Original Standard Plans being prepared	16	52,297 20,192	10	104,451 40,328	8	52,406 20,234	17	117 45
Inactive Units	9	87,278 33,698	—	—	—	—	—	—
Total	82	333,571 128,792	15	156,006 60,234	8	52,406 20,234	58	1,031 391

FOREST RESOURCES GROUP

TIMBER SALES BRANCH

Room W-3540, Main Office. Telephone (416) 965-2731.

Director.....	E. Markus.....	W-3545... 3948
Special Projects & Energy		
Biomass Co-ordinator.....	R. Alton	W-3547... 2731
WOOD ALLOCATION SECTION		
Supervisor	J.R. Keddie	W-3543... 2731
Timber Licensing, Spvr.	K. Cleary	W-3549... 2731
Licensing Unit, Spvr.....	F.C. Parris	W-3544... 2731
Resource Economist.....	I.A. Nauseidas	W-3548... 2731
Industrial Liaison Officer	W. Wardle	H- 548 ... 5760
Agreement Administrator.....	J. Brown.....	W-3546... 2731
MANAGEMENT PLAN SECTION		
Management Planning, Spvr.....	A.M. van Fraassen	W-3602... 7631
Chief Mensurationist	J. Mervart.....	W-3540... 2731
Planning Analyst	G. Protich	W-3605... 7631
Planning Analyst	H. van Bers	W-3604... 7631
WOOD MEASUREMENT SECTION		
Supervisor	J. H. Butts	W-3610... 0378
Provincial Wood Measurement		
Training Officer	J. Bingley.....	W-3610... 0378
Senior Data Processing Officer	R.G. Johnson	W-3610... 0378
Data Control Officer	K.A. Haynes.....	W-3610... 0378
FOREST MANAGEMENT INFORMATION SECTION		
Supervisor	J. E. Osborn.....	W-3603... 7631
FOREST RESOURCES INVENTORY SECTION		
Supervisor	B. Cardwell	W-3422... 6914
Darkroom Supervisor	J. Howard	W-3520... 6914
Operation Manager	D. Trafford.....	W-3423... 6914
Photo Interpretation Sprvr.....	A. Manley.....	W-3420... 6914
FORMAGAIN UNIT		
Supervisor	W. E. Jenns	M-1B43 . 3-0882

MANAGEMENT UNITS

Areas in square kilometres (square miles in light face) at March 31

Year	No.	CROWN LAND FORESTS						AGREEMENT FORESTS		
		Crown Area	Company No.	Area	FMA No.	Area	Total No.	Area	No.	Area
1978	88	333,821.0	26	199,348.8			114	533,169.7	60	1,064.5
		128,889.0		76,969.0				205,858.0		411.0
1979	88	333,821.0	17	199,348.8			105	533,169.7	59	1,077.4
		128,889.0		76,969.0				205,858.0		416.0
1980	88	334,418.0	17	198,751.0			105	533,169.0	60	1,090.0
		129,120.0		76,681.0				205,801.0		421.0
1981	78	333,402.0	14	165,016.0	5	45,584.0	97	544,002.0	60	1,096.0
		128,727.0		63,713.0		17,600.0		210,040.0		423.2
1982	82	333,571.0	15	156,006.0	8	52,406.0	105	541,983.0	58	1,013.0
		128,792.0		60,234.0		20,234.0		209,260.0		391.0

TIMBER LICENCES

Areas in square kilometres (square miles in light face) at March 31

Year	Under Section 2 No.	Area	Under Section 3 No.	Area	Under Section 5 No.	Area	Total Licences No.	Area
1978	28	33.9	386	241,194.4	14	69.9	428	241,298.3
		13.1		93,125.7		27.0		93,165.8
1979	44	39.1	415	239,531.2	19	96.3	478	239,666.6
		15.1		92,483.5		37.2		92,535.8
1980	78	75.6	412	242,711.9	20	86.5	510	242,874.1
		29.2		93,711.6		33.4		93,774.2
1981	56	69.4	428	243,918.6	64	329.7	548	244,317.7
		26.8		94,177.5		127.3		94,331.6
1982	34	48.0	420	243,085.9	58	643.0	512	243,776.9
		18.5		93,856.0		248.3		99,122.8

MILL LICENCES

Type of Mill	1977	1978	1979	1980	1981
Saw Mills, 8-hour capacity					
Lumber..... over 50M fbm	58	61	54	60	60
Lumber..... 10M to 50M fbm	99	96	96	96	85
Lumber..... under 10M fbm	588	602	594	648	608
Misc. Sawn Products	31	30	41	38	50
Saw Mills, Total.....	776	789	785	842	803
Veneer Mills	24	24	28	31	25
Pulp Mills.....	22	23	23	21	21
Total.....	822	836	836	894	849

TIMBER HARVESTED ON CROWN LANDS BY SPECIES

In cubic metres (000s cubic feet in light face) and \$000s in years ending March 31

Species	1978	1979	1980	1981	1982
SOFTWOOD					
Balsam.....	529,184	556,482	612,228	855,962	718,975
	18,688	19,652	21,621	30,228	23,453
Cedar.....	12,289	15,574	21,139	12,912	13,659
	434	550	747	456	446
Hemlock.....	58,049	73,397	59,271	54,595	63,504
	2,050	2,592	2,093	1,928	2,072
Jack Pine.....	5,010,884	5,086,830	5,733,806	5,475,573	5,362,713
	176,958	179,640	202,487	193,368	174,932
Red Pine.....	174,205	144,444	177,397	173,186	183,663
	6,152	5,101	6,265	6,116	5,991
Scotch Pine.....	.....	—	—	—	529,159
	.....	.....	.....	.....	17,261
White Pine.....	586,894	492,882	560,970	457,487	7,724,772
	20,726	17,406	19,810	16,156	251,982
Spruce.....	7,511,569	7,568,231	8,222,273	8,029,356	2,330
	265,269	267,270	290,367	283,554	73
Tamarack.....	1,926	2,152	4,269	5,239	18,503
	68	76	151	185	604
Mixed.....	7,079	6,683	9,209	9,231	2,021
	250	236	325	326	65
HARDWOOD					
Ash.....	1,303	1,727	2,304	1,387	11,042
	46	61	81	49	358
Basswood.....	7,759	11,100	12,836	8,382	19,581
	274	392	453	296	634
Beech.....	14,696	24,806	21,663	14,526	77,523
	519	876	765	513	2,511
White Birch.....	66,290	79,627	88,532	57,370	105,982
	2,341	2,812	3,126	2,026	3,433
Yellow Birch.....	111,115	111,851	112,682	83,563	16
	3,924	3,950	3,979	2,951	1
Butternut.....	.....	28	13	—	1,373
	.....	1	.....	—	44
Cherry.....	821	1,133	1,148	595	39
	29	40	41	21	1
Elm.....	623	283	283	113	1
	22	10	10	4	....
Maple.....	241,344	270,454	249,783	165,200	219,345
	8,523	9,551	8,821	5,834	7,105
Oak.....	8,920	11,270	13,266	10,024	11,389
	315	398	469	354	369
Poplar.....	1,059,586	1,319,903	1,384,875	1,297,761	1,800,431
	37,419	46,612	48,906	45,830	58,316
Mixed.....	452,984	592,897	626,132	585,423	647,366
	15,997	20,938	22,112	20,674	20,968
TOTALS					
Softwoods.....	13,892,165	13,946,675	15,400,562	15,073,554	14,617,179
	490,598	492,523	543,866	532,317	476,812
Hardwoods.....	1,965,497	2,425,051	2,513,517	2,224,358	2,876,121
	69,411	85,640	88,764	78,552	93,805
Total.....	15,857,662	16,371,697	17,914,078	17,297,912	17,513,300
	560,009	578,162	632,630	610,869	574,413
Value*.....	\$32,357	\$35,919	\$46,184	\$43,727	\$42,453

*Export Levy not included.

VOLUME AND VALUE OF TIMBER CUT FROM CROWN LANDS

in year ending March 31, 1981

Tree Species	Volume in Cubic Feet	Volume in Cubic Metres	Bonus \$	Crown Dues \$	Stumpage \$ Value
SOFTWOODS					
White Pine	17,261,162.83	529,158.885	609,970.39	1,209,908.82	1,819,879.21
Red Pine	5,991,098.05	183,663.337	195,354.19	423,889.35	619,243.54
Jack Pine	174,931,682.11	5,362,712.511	518,110.16	13,623,638.38	14,141,748.54
White Spruce	3,665,825.00	112,379.675	5,322.11	308,534.71	313,856.82
Black Spruce	17,857,640.93	547,444.541	22,715.45	1,491,510.14	1,514,225.59
Spruce, Mixed	230,458,600.47	7,064,947.899	797,326.06	17,928,932.29	18,726,258.35
Hemlock	2,071,506.55	63,504.186	18,521.31	141,560.19	160,081.50
Balsam	23,452,977.32	718,975.393	75,057.16	1,637,473.01	1,712,530.17
Cedar	445,570.44	13,659.425	6,693.95	31,644.83	38,338.78
Tamarack	72,754.02	2,230.350	285.77	5,011.12	5,296.89
Mixed Conifers	603,574.19	18,503.194	657.45	9,240.65	9,898.10
Total Softwoods	476,812,391.90	14,617,179.396	2,250,014.00	36,811,343.49	39,061,357.49
HARDWOODS					
Maple	7,104,598.38	219,345.427	220,722.93	570,118.67	790,841.60
Yellow Birch	3,432,751.70	105,981.837	180,599.84	297,874.60	478,474.44
White Birch	2,510,967.44	77,522.922	87,490.83	39,882.40	127,373.23
Oak	368,875.85	11,388.572	27,038.71	27,253.75	54,292.46
Beech	634,234.03	19,581.168	17,812.54	49,538.81	67,351.35
Ash	65,455.59	2,020.858	7,222.45	4,637.36	11,859.81
Elm	1,256.12	38.781	83.08	384.25	467.33
Basswood	357,665.28	11,042.460	33,675.79	24,644.40	58,320.19
Butternut	506.61	15.641	50.82	54.26	105.08
Ironwood	439.27	13.562	1.52	1.65	3.17
Cherry	44,478.89	1,373.229	1,073.46	3,440.04	4,513.50
Poplar	58,315,948.72	1,800,430.649	258,284.65	927,122.20	1,185,406.85
Mixed Hardwoods	20,968,176.58	647,365.784	283,285.77	329,844.08	613,129.85
Total Hardwoods	93,805,355.63	2,896,120.890	1,117,342.39	2,274,796.47	3,392,138.86
GRAND TOTAL	574,412,635.56	17,513,300.286	3,367,356.39	39,086,139.96	42,453,496.35

TIMBER HARVESTED ON CROWN LAND BY METHOD OF MEASUREMENT

In cubic metres (000s cubic feet in light face) and \$000s in years ending March 31

Year	Cords			Cubic Feet			Foot Board Measure			Stumpage		
	Softwood	Hardwood	Softwood	Hardwood	Cubic Feet	Grade	Grade	Grade	Mass	Total	Value	
					1	2	3					
1978.....	3,497,493	572,877	6,094,200	394,991	129,096	178,736	78,931	4,919,241	15,882,863	\$32,357		
	123,513	20,231	215,215	13,949	4,559	6,312	2,783	173,446	560,009			
1979.....	3,936,658	694,300	5,862,540	531,167	125,132	202,040	105,506	4,922,332	16,397,743	\$35,919		
	139,022	24,519	207,034	18,758	4,419	7,135	3,720	173,555	578,163			
1980.....	4,339,917	708,271	6,059,439	656,378	121,369	191,354	101,058	5,736,293	17,914,078	\$46,184		
	153,263	25,012	213,987	23,180	4,286	6,758	3,569	202,575	632,630			
1981.....	4,046,179	664,864	5,855,397	471,051	83,192	133,923	65,384	5,977,929	17,297,913	\$43,727		
	142,889	23,479	206,781	16,635	2,938	4,729	2,309	211,108	610,869			
1982.....	3,889,894	558,760	5,070,186	611,389	107,244	181,592	81,943	6,719,923	17,513,300	\$42,453		
	126,888	18,098	165,389	19,803	3,474	5,882	2,654	218,955	574,413			

TIMBER HARVESTED ON CROWN LANDS BY REGIONS

(Administrative Regions of Ministry of Natural Resources)
In cubic metres (000s cubic feet in light face) in years ending March 31

Regions	1980	1981	1982
Northwestern			
Softwoods.....	3,621,019	3,626,199	3,688,116
127,875	128,058	120,306	
Hardwoods	38,722	50,659	71,194
1,367	1,788	2,306	
North Central			
Softwoods.....	5,209,534	4,746,640	4,464,605
183,973	167,626	145,635	
Hardwoods	839,366	789,049	923,375
29,642	27,865	29,908	
Northern			
Softwoods.....	5,154,315	5,151,203	4,795,869
182,023	181,912	156,441	
Hardwoods	414,242	396,549	538,589
14,629	14,004	17,445	
Northeastern			
Softwoods.....	1,027,730	1,091,700	1,315,205
36,294	38,553	42,902	
Hardwoods	601,760	509,817	766,063
21,251	18,004	24,813	
Algonquin			
Softwoods.....	349,480	440,922	324,081
12,342	15,571	10,572	
Hardwoods	534,308	402,524	492,500
18,869	14,215	15,952	
Eastern			
Softwoods.....	38,304	16,905	29,304
1,353	597	956	
Hardwoods	84,471	75,776	104,400
2,983	2,676	3,382	
Central			
Softwoods.....	179	—	—
6	—	—	—
Hardwoods	648	—	—
23	—	—	—
Southwestern			
Softwoods.....	—	—	—
—	—	—	—
Hardwoods	—	—	—
—	—	—	—
Total, Ontario			
Softwoods.....	15,400,562	15,073,554	14,617,179
543,866	532,317	476,812	
Hardwoods	2,513,517	2,224,358	2,896,121
88,764	78,552	93,805	
Total.....	17,914,078	17,297,912	17,513,300
	632,630	610,869	574,413

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT AND TREE SPECIES

—in year ending March 31, 1982

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
STACKED, ROUGH					
White Pine	7,506.110	229,724.85	7,042.454	15,836.64	16,636.61
Red Pine	7,933.841	258,614.49	7,928.096	15,227.09	16,089.37
Jack Pine	1,387,444.781	45,392,737.08	1,391,561.529	3,567,882.42	3,657,257.06
Black Spruce	6,907.210	225,313.19	6,907.210	16,392.99	17,319.68
Spruce, Mixed	1,771,027.029	56,699,261.58	1,768,830.827	4,564,130.58	4,698,189.32
Hemlock	13.157	429.18	13.157	29.80	30.22
Balsam	92,866.787	3,017,117.84	92,492.883	237,193.20	249,646.59
Cedar	4,908.614	157,430.12	4,826.184	11,102.80	11,395.18
Tamarack	1,445.604	47,481.80	1,455.604	3,213.97	3,266.62
White Birch	22,978.914	740,490.53	22,861.702	11,415.86	56,080.51
Ash	8.837	286.23	8.837	4.04	4.04
Poplar	503,322.016	16,188,877.38	499,810.972	217,107.15	274,312.40
Hardwoods, Mixed	7,230.245	214,751.37	6,630.175	4,153.68	10,855.47
TOTAL	3,813,603.145	124,172,515.64	3,810,369.630	8,663,690.22	9,011,083.07
STACKED, PEELED					
Jack Pine	98,898.990	3,226,085.05	98,898.990	268,163.10	271,479.00
Spruce, Mixed	388,624.257	12,676,923.26	388,624.257	1,052,089.58	1,081,542.03
Balsam	121,304.733	3,956,960.39	121,304.733	209,579.37	213,630.32
Cedar	8.471	276.32	8.471	20.09	20.96
Poplar	29,448.462	953,835.68	29,448.462	16,914.72	18,219.29
TOTAL	638,284.913	20,814,080.70	638,284.913	1,546,766.86	1,584,891.60

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
CUBIC METRES					
White Pine	399,179.223	13,021,226.25	399,179.223	902,606.03	1,434,057.66
Red Pine	109,233.090	3,562,857.20	109,233.090	246,018.30	391,134.80
Jack Pine	1,327,466.772	43,301,966.10	1,327,466.772	3,335,417.75	3,451,087.12
White Spruce	112,379.675	3,665,825.00	112,379.675	308,534.71	313,856.82
Black Spruce	540,537.331	17,632,327.74	540,537.331	1,475,117.15	1,496,905.91
Spruce, Mixed	2,292,756.001	74,789,700.75	2,292,756.001	5,752,931.50	6,085,561.77
Hemlock	50,940.567	1,661,681.30	50,940.567	112,619.39	130,734.65
Balsam	227,963.613	7,436,173.06	227,963.613	564,834.88	592,959.94
Cedar	8,790.970	287,864.00	8,824.770	20,521.94	26,922.64
Tamarack	774.746	25,272.21	774.746	1,797.15	2,030.27
Conifers, Mixed	129.855	4,235.87	129.855	59.34	206.46
White Birch	54,661.220	1,770,476.92	54,661.220	28,466.54	71,292.72
Ash	10.750	348.19	10.750	4.91	7.00
Elm	13,134.000	73.72	2.276	262.68	262.68
Poplar	556,186.118	18,014,868.36	556,186.118	301,262.16	422,322.97
Hardwoods, Mixed	528.948	17,132.63	528.948	242.92	555.39
Total	5,694,672.879	185,192,029.30	5,681,574.955	13,050,697.35	14,419,898.80
BOARD FOOT MEASURE, GRADE 1					
Maple	12,584.600	1,997,042.57	61,656.146	294,005.97	385,167.86
Yellow Birch	7,192.670	1,086,191.23	33,534.771	166,294.06	242,985.89
Oak	659,580	108,852.23	3,360,674	16,069.16	25,548.55
Beech	1,001.370	161,211.99	4,977.215	23,215.66	30,171.38
Ash	98.530	16,650.21	514.054	2,400.64	5,535.94
Elm	3.340	518.53	16.009	79.14	97.07
Basswood	563.930	92,628.08	2,859.774	13,369.45	23,683.15
Butternut	1.520	230.20	7.107	36.91	65.22
Cherry	65.390	10,323.05	318.711	1,498.65	1,868.18
Total	22,170.930	3,473,648.09	107,244.461	516,969.64	715,123.24

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
BOARD FOOT MEASURE GRADE 2					
Maple	21,996.810	3,562,006.23	109,972.406	255,679.25	353,610.61
Yellow Birch.....	10,606.980	1,651,613.62	50,991,467	122,197.92	224,166.40
Oak	756.140	125,708.57	3,881,092	9,356.59	18,816.12
Beech	2,134.180	350,918.28	10,834,155	24,695.77	32,585.83
Ash	159.390	27,530.50	849,969	1,944.05	5,197.28
Elm	3,260	512.51	15,823	40.17	68.20
Basswood	806.680	136,754.47	4,222.120	9,582.87	22,056.61
Butternut	1,330	223.62	6,904	16.57	32.40
Cherry	161.310	259,706.42	818.105	1,842.19	2,469.55
Total	36,626.080	9,676,980.45	181,592.041	425,355.38	659,003.00
BOARD FOOT MEASURE GRADE 3					
Maple	8,745.480	1,545,549.58	47,716.875	20,433.45	52,063.13
Yellow Birch.....	4,082.400	694,946.85	21,455.599	9,382.62	11,322.15
Oak	738.280	134,315.05	4,146,806	1,828.00	9,927.79
Beech	690.640	122,103.76	3,769,798	1,627.38	4,594.14
Ash	129.050	20,640.46	637.248	283.72	1,115.55
Elm .....	.890	151.36	4,673	2.26	39.38
Basswood	694.920	128,282.73	3,960,566	1,692.08	12,580.43
Butternut .....	.310	52.80	1,630	.78	7.46
Ironwood .....	.350	439.27	13,562	1.65	3.17
Cherry	43.180	7,657.42	236.413	99.20	175.77
Total	15,125.500	2,654,139.28	81,943.170	35,351.14	91,828.97

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT AND TREE SPECIES

— in year ending March 31, 1982

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Feet	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
FUELWOOD, STACKED					
Conifers, Mixed	17,390.963	567,048.43	17,383.459	8,728.94	8,869.14
Hardwoods, Mixed	238,219.443	7,592,528.82	234,409.658	111,564.46	305,581.98
Total	255,610.406	8,159,577.25	251,793.117	120,293.40	314,451.12
FUELWOOD, CUBED					
Conifers, Mixed	989.880	32,289.89	989.880	452.37	822.50
Hardwoods, Mixed	27,820.565	901,108.10	27,820.565	13,044.42	26,960.07
Total	28,810.445	933,397.99	28,810.445	13,496.79	27,782.57
FUELWOOD, MASS SCALED					
Hardwoods, Mixed	13,106.295	381,064.92	11,764.894	5,314.82	6,044.30
Total	13,106.295	381,064.92	11,764.894	5,314.82	6,044.30
MASS SCALED WOOD					
White Pine	100,933.873	4,010,211.72	122,937.208	291,466.15	369,184.94
Red Pine	56,271.156	2,169,300.17	66,502.151	162,643.96	212,019.37
Jack Pine	2,056,190.803	83,010,893.88	2,544,785.220	6,452,175.11	6,761,925.36
Spruce, Mixed	2,011,336.749	85,292,714.87	2,614,736.814	6,559,780.63	6,860,965.23
Hemlock	11,646.828	409,396.07	12,550.462	28,911.00	29,316.63
Balsam	255,041.571	9,042,726.03	277,214.164	625,865.56	656,293.32
Poplar	673,005.736	23,158,367.29	714,985.097	391,838.17	470,552.19
Hardwoods, Mixed	410,597.450	11,861,591.91	366,211.544	195,523.78	263,132.64
Total	5,575,024.166	218,955,201.94	6,719,922.660	14,708,204.36	15,623,389.68
TOTAL TIMBER CUT IN PROVINCE	574,412,635.56	17,513,300.286	39,086,139.96		42,453,496.35

PRINCIPAL STATISTICS OF ONTARIO'S FOREST INDUSTRY BY SECTOR

Source: Statistics Canada

Sector	Year	Establishments No.	Total Employees No.	Total Salaries and Wages \$000s	Fuel and Electricity \$000s	Materials and Supplies \$000s	Value of Shipments \$000s	Total Value Added \$000s
1976								
Logging		269	7,694	126,888	11,014	153,503	353,893	196,735
Wood Industries		683	19,868	212,309	17,561	386,944	734,319	343,414
Paper and Allied		301	45,645	612,501	145,410	1,291,516	2,459,739	1,083,376
Total		1,253	73,207	951,698	173,985	1,831,963	3,547,951	1,623,525
Furniture and Fixtures*		470	21,712	226,778	6,781	350,314	707,781	371,375
1977								
Logging		246	8,447	153,309	12,539	188,298	435,323	231,149
Wood Industries		645	20,110	242,641	22,715	447,267	870,023	410,509
Paper and Allied		287	43,488	681,113	197,186	1,440,021	2,826,617	1,207,415
Total		1,178	72,045	1,077,063	232,440	2,075,586	4,131,963	1,849,073
Furniture and Fixtures*		455	20,078	222,317	7,734	337,931	709,599	368,612
1978								
Logging		255	9,569	179,797	15,045	244,909	504,960	253,658
Wood Industries		707	21,942	279,260	27,712	541,657	1,077,962	515,321
Paper and Allied		319	45,209	747,394	228,829	1,616,288	3,145,697	1,317,821
Total		1,281	76,720	1,206,630	271,586	2,402,854	4,728,619	2,086,800
Furniture and Fixtures*		527	20,968	250,535	8,299	390,909	828,564	437,325
1979								
Logging		321	9,684	197,276	17,084	306,121	588,598	278,921
Wood Industries		761	22,902	320,144	31,134	690,807	1,319,647	629,169
Paper and Allied		334	46,172	827,101	252,576	2,007,803	3,872,205	1,661,591
Total		1,416	78,758	1,344,521	300,794	3,004,731	5,780,450	2,569,681
Furniture and Fixtures*		618	23,650	307,672	9,856	503,463	1,043,909	547,979
1980								
Logging		391	9,578	215,652	24,072	365,267	668,003	319,883
Wood Industries		778	21,348	328,793	33,475	712,130	1,275,892	562,631
Paper and Allied Industries		349	47,861	926,779	279,530	2,368,722	4,598,977	1,992,117
Total		1,518	78,787	1,471,224	337,077	3,446,119	6,542,872	2,874,631
Furniture and Fixtures*		607	23,703	340,550	11,254	606,934	1,224,628	615,070

* Does not include furniture upholstery, re-upholstery and repair shops.

MINERAL RESOURCES GROUP*

Room W-6341, Main Office. Telephone (416) 965-4271.

Executive Co-ordinator	G. A. Jewett	W-6341... 4271
Secretary	Mrs. P. Barchuk	W-6341... 4271

77 Grenville St., Toronto, Ont. M5S 1B3. Telephone (416) 965-5484

Head, Planning & Administration	G. E. Soucie	R-810 ... 5484
Financial Officer	K. H. Stahl	R-811 ... 2461

ONTARIO GEOLOGICAL SURVEY

Room 1121, 77 Grenville St., Toronto, Ont. M5S 1B3. Telephone (416) 965-1283.

Survey Director	Dr. E. G. Pye	R-1121 ... 1283
Executive Officer.....	G. Fremhold-Treu	R-1118 ... 2095
Program Evaluation Geologist.....	Dr. M. A. Lee.....	R-1117A .. 2095
Regional Liaison Geologist	C. R. Kustra	R-1119 ... 5180
Geoscience Research Grant Program.....	Mrs. W. Paquette.....	R-806 ... 1546
Exploration Technology Dev. Fund	R. B. Watson	R-832A ... 1546
Precambrian Geology Section	J. Wood, Spvr.	R-914 ... 1321
North Archean Group	H. Wallace	R-921 ... 1827
Central Archean Group.....	Dr. P. C. Thurston	R-923 ... 1827
South Archean Group	N. F. Trowell.....	R-907 ... 4817
Proterozoic Group.....	Dr. B. O. Dressler.....	R-905 ... 2326
Engineering & Terrain Geology Section	Dr. O. L. White, Spvr.....	R-707 ... 1182
Paleozoic & Mesozoic Subsection.....	Dr. P. G. Telford	R-706 ... 1182
Hydrocarbon Energy Res. Program	Dr. P. G. Telford	R-706 ... 1182
Quaternary Geology Subsection	E. V. Sado.....	R-701 ... 1182
Aggregate Assessment Office.....	W. D. Scott	R-705 ... 1182
Geophysics/Geochemistry Section.....	R. B. Barlow, Spvr.....	R-708 ... 1697
Mineral Deposits Section	Dr. A. C. Colvine, Spvr.	R-1026 ... 1466
Geoservices Section	Dr. A. E. Pitts, Spvr.....	R-912 ... 5601
Geoscience Data Centre.....	H. A. Groen.....	R-804 ... 4641
Assessment Files Research.....	R. C. Owen	R-819 ... 6139
Geoscience Information.....	E. B. Freeman.....	R-807 ... 0190
Scientific Review.....	Mrs. G. M. Scott	R-718 ... 7325
Geoscience Laboratores	Dr. C. Riddle.....	R-1117 ... 1337
Mines Library	Mrs. N. Thurston	R-812 ... 1352
Technical Services	Ms. L. Burchat	R-915 ... 4245

*See Mining Lands and Prospecting Activities under Lands Administration Branch

LIST OF FIELD SURVEYS (REGULAR PROGRAM)

Ontario Geological Survey, 1981

No.	Location	Leaders
PRECAMBRIAN GEOLOGY SECTION		
1. Lingman Lake Area		B. C. Wilson
2. Western Uchi Subprovince Synoptic Project		P. C. Thurston
3. Red Lake Synoptic Project		H. Wallace
4. Bowerman-Belanger Townships		T. L. Muir
5. Lithophile Mineralization, NW Ontario		F. W. Breaks
6. MacQuarrie-McGeorge Townships		G. W. Johns
7. Wabigoon-Quetico Subprovince Boundary Project		R. H. Sutcliffe
8. O'Sullivan Lake Area		J. Inasi
9. Terrace Bay Area		M. W. Carter
10. Josephine Area		R. P. Sage
11. Wawa Area, Mineralization and Volcanic Stratigraphy		R. P. Sage
12. Keefer, Denton, and Thorneloe Townships		A. G. Choudhry
13. Parnes Lake Area		R. Huggins
14. Pensyl Lake Area		G. M. Siragusa
15. Batchawana Synoptic Project		E. C. Grunsky
16. Algorithm for Classification of Subalkalic Volcanic Rocks		E. C. Grunsky
17. Kawashegamuk Lake Area		C. E. Blackburn
		D. U. Kresz
ENGINEERING AND TERRAIN GEOLOGY SECTION		
18. Ear Falls and Pakwash Areas		M. J. Ford
19. Achray Area		R. J. Kodybka
20. Chatham and Wheatley Areas		E. V. Sado
21. Orillia Area		P. F. Finamore
22. Sans Souci, Lake Joseph, Penetanguishene, and Christian Island Areas		M. J. Batterson
23. Paleozoic Outliers on the Canadian Shield		D. J. Russell
24. Aggregate Resources Inventory, Southern Ontario		D. W. Scott
GEOPHYSICS/GEOCHEMISTRY SECTION		
25. Night Hawk Test Range, Electromagnetic Systems		R. B. Barlow
26. Gravity Study, North Central Ontario		V. K. Gupta
27. Regional Geochemistry, Southwestern Ontario		I. Thomson
28. Wawa Area, Integrated Studies of Lake System Geochemistry		I. Thomson
MINERAL DEPOSITS SECTION		
29. Northern Cobalt Embayment, Lorrain Formation Study		A. C. Colvine
30. Mine Centre-Fort Frances Area, Mineralization Study		K. H. Poulsen
31. Grenville Province, Zinc and Graphite		T. R. Carter
32. Weagamow-North Caribou Lake Belt, Reconnaissance		A. J. Andrews
		D. R. Sharpe
		D. A. Janes
		L. Owsiacki
33. Lundy Township		D. G. F. Long
34. Cobalt Embayment, Basal Placer Gold Concentrations		

LIST OF FIELD SURVEYS (SPECIAL PROGRAM)

Ontario Geological Survey, 1981

No.	Location	Leaders
PRECAMBRIAN GEOLOGY SECTION		
1. Dalhousie Lake Area	L. Pauk	
2. Marmora, Belmont, and southern Methuen Townships	J. R. Bartlett	
3. Grenville Province, Carbonate Metasediment Study	J. M. Moore	
4. Cascaden, Dowling, and Trill Townships.....	M. S. Bourque	
5. Sudbury Irruptive, Footwall Study	J. Lafleur	
6. Cobalt Area, Huronian Sedimentation Study	B. O. Dressler	
7. Kirkland Lake Area, Stratigraphic Mapping	A. S. Legun	
8. Ben Nevis Area, Alteration Study	L. S. Jensen	
	N.F. Trowell	
	E. C. Grunsky	
ENGINEERING AND TERRAIN GEOLOGY SECTION		
9. Bannockburn Area, Quaternary Geology	B. S. Goldstein	
10. Tweed, Belleville and Wellington Areas, Quaternary Geology.....	J. G. Leyland	
11. Munro Esker, Stratigraphy and Sedimentation Study	C. L. Baker	
12. Constance-Hanlon Lakes Area, Quaternary Geology.....	J. A. Richard	
13. Kingston Area, Paleozoic Geology.....	D. M. Carson	
14. Southern Ottawa—St. Lawrence Lowlands, Paleozoic Geology	D. M. Carson	
15. Manitoulin Island, Limestone—Dolostone Study.....	M. D. Johnson	
16. Northern Ontario Aggregate Resources Inventory.....	staff	
GEOPHYSICS/GEOCHEMISTRY SECTION		
17. Kirkland Lake Area, Till Prospecting Study	J. T. Lourim	
18. Kirkland Lake Area, Basal Till Surveys	I. Thomson	
19. Northern Ontario Electromagnetic—Magnetic Surveys ...	I. Thomson	
	D. R. Wadge	
	R. B. Barlow	
MINERAL DEPOSITS SECTION		
20. Cargill Complex, Industrial Minerals	M. A. Vos	
21. Terrace Bay Batholith, Mink Lake Stock and Cairo Stock, Mineralization.....	S. Marmont	
22. Early Precambrian Porphyry Deposits	A. C. Colvine	
23. Kirkland Lake Gold Study	A. C. Colvine	
24. Cordova Gabbro Mineralization Study	S. Marmont	
	F. R. Ploeger	
	P. B. Thomas	
	M. E. Cherry	

GEOSCIENCE RESEARCH GRANT PROGRAM

Summary of projects and allocations in years ending March 31

	1979	1980	1981	1982
Universities	Projects	Projects	Projects	Projects
Brock.....	1	—	1	2
Carleton.....	4	3	2	1
Guelph.....	1	—	—	—
Lakehead.....	—	—	1	—
Laurentian.....	1	2	3	1
McMaster	—	1	1	1
Ottawa.....	2	2	—	—
Queen's.....	1	2	3	1
Toronto.....	8	8	10	8
Waterloo.....	2	2	2	2
Western.....	2	5	5	4
Windsor.....	2	2	1	1
York	—	—	—	—
Total.....	24	27	29	21
	\$406,503	\$475,567	\$536,447	\$418,289

EXPLORATION TECHNOLOGY DEVELOPMENT FUND PROGRAM

Summary of projects and allocations in years ending March 31

Company	Projects Accepted
	1982
AlphaNUCLEAR Co.....	1
Barringer Magenta Ltd.....	2
Crone Geophysics Ltd.....	1
EDA Instruments Inc.....	1
Gem Systems Inc.....	1
Geotech Ltd.....	1
Lamontagne Geophysics Ltd.....	1
Nuclear Activation Services Ltd.....	1
Paterson, Grant & Watson Ltd.....	1
Phoenix Geophysics Ltd.....	1
Questor Surveys Ltd.....	2
Scintrex Ltd.....	1
Technical Services Laboratories Ltd.....	1
Accepted.....	15
Allocations	\$780,520

PUBLICATIONS RELEASED

Ontario Geological Survey

Types of Publication	1977	1978	1979	1980	1981
Preliminary Maps	61	200	183	203	134
Colored Geology Maps	28	12	14	9	21
N. Ont. Engineering & Terrain Geology	—	—	11	51	31
Geophysical/Geochemical	242	253	426	34	77
Aggregate Resource Inventory Papers	—	—	1	21	19
Guidebooks	—	—	1	—	—
Mineral Deposit Circulars	1	1	2	—	4
Miscellaneous Papers	5	6	7	7	8
Non-serial Publications	2	2	3	4	7
Open File Reports	14	22	22	42	41
Reports	13	16	11	7	12
Studies	3	—	1	—	1

ASSESSMENT FILES RESEARCH OFFICE

Office Operations	1976	1977	1978	1979	1980	1981	1946-81
FILES ADDED							
Technical Surveys and Summaries for							
Assessment Credit	240	240	300	350	453	821	7,838
MEAP	56	45	50	50	46	35	518
Ontario Securities							
Commission and Misc.	81	48	25	27	104	40	674
Drilling Reports	400	300	320	340	310	388	9,419
OPERATIONS							
Enquiries	2,685	3,460	3,527	3,274	2,577	2,567	
Files Examined	14,702	14,520	14,343	15,640	17,696	17,769	
Control Maps Examined	8,932	7,141	6,569	6,361	6,104	5,465	

VALUE OF ONTARIO MINERAL OUTPUT BY MNR REGIONS

MNR REGIONS	1978	1979	1980
	\$	\$	\$
ALGONQUIN REGION			
Metallic minerals	—	—	54,697,685
Non-metallic minerals	—	—	16,601,372
Structural Materials	—	—	10,069,196
Total	82,794,010	85,026,932	81,368,253
CENTRAL REGION			
Non-metallic minerals	4,887,049	4,789,766	5,753,434
Natural gas, petroleum	2,240,589	2,248,754	995,055
Structural materials	251,711,737	259,454,996	284,761,165
Total	258,839,375	266,493,516	291,509,654
EASTERN REGION			
Metallic minerals	—	—	—
Non-metallic minerals	—	—	771,755
Structural materials	—	—	95,298,546
Total	93,425,343	100,971,141	96,070,301
NORTH CENTRAL REGION			
Metallic minerals	178,286,494	214,719,805	156,468,788
Non-metallic minerals	—	—	698,156
Structural materials	5,570,738	4,127,021	3,975,687
Total	183,857,232	218,846,826	161,142,631
NORTHERN REGION			
Metallic minerals	407,973,913	584,530,403	747,565,752
Non-metallic minerals	2,045,044	2,228,022	3,752,770
Structural materials	4,090,812	3,841,462	4,501,871
Total	414,109,769	590,599,887	755,820,393
NORTHEASTERN REGION			
Metallic minerals	1,157,576,950	1,356,670,381	2,435,663,070
Non-metallic minerals	10,673,234	12,402,041	17,737,296
Structural materials	15,222,770	14,627,428	30,563,152
Total	1,183,472,954	1,383,699,850	2,483,963,518
NORTHWESTERN REGION			
Metallic Minerals	239,454,845	339,401,530	414,769,590
Non-metallic minerals	—	—	885,049
Structural materials	5,292,637	5,047,880	7,429,567
Total	244,747,482	344,449,410	423,084,206
SOUTHWESTERN REGION			
Natural gas, petroleum.....	27,301,960	27,430,246	42,273,550
Non-metallic minerals	61,850,200	69,134,668	72,904,536
Structural materials	131,778,552	148,831,020	143,629,290
Total	220,930,712	245,395,934	258,807,376
Sand and gravel produced in unorganized territories.....	1,900,836	5,127,386	—
ONTARIO TOTAL	2,684,077,713	3,240,610,882	4,551,766,332

Source: Mineral Statistics Section, Ministry of Natural Resources

MINERAL RESOURCES GROUP

MINERAL RESOURCES BRANCH

Room W-4626, Main Office. Telephone (416) 965-1559.

Branch Director	Dr. T. P. Mohide.....	W4626 . . . 1559
Mineral Statistics Section	G. Weatherston, Spvr.	W4632 . . . 0211
Metallic Minerals Section	Dr. G. Anders, Spvr.	W4625 . . . 1311
Industrial Minerals Section	S. E. Yundt, Spvr.	W4646 . . . 1172
Fuel Minerals	S. Kern, Spvr.....	W4629 . . . 1882

ONTARIO MINERAL PRODUCTION IN 1980 and 1981

1980 figures show final completion of shipments.

1981 figures are preliminary.

METALLIC MINERALS	Unit	1980		1981	
		Quantity	Value \$	Quantity \$	Value \$
Bismuth	kg	—	—	1,000	8,000
Cadmium	kg	779,133	5,283,454	850,000	4,241,000
Calcium	kg	530,606	3,421,621	566,000	4,234,000
Cobalt	kg	1,685,948	106,900,800	1,569,000	88,096,000
Copper	kg	245,024,420	631,187,524	228,192,000	504,738,000
Gold	g	18,497,499	403,893,082	16,518,000	292,638,000
Iron Ore	tonne	6,569,131	261,998,580	5,267,000	247,213,000
Lead	kg	8,959,858	9,087,822	2,264,000	2,222,000
Magnesium	kg	9,252,035	27,821,844	8,775,000	30,197,000
Nickel	kg	145,607,461	1,154,868,925	127,206,000	1,159,747,000
Platinum Group	g	12,776,000	158,923,378	18,914,000	223,214,000
Selenium	kg	43,091	1,068,915	57,000	1,365,000
Silver	kg	461,027	335,566,122	324,000	130,784,000
Tellurium	kg	4,906	246,560	4,000	67,000
Tin	kg	103,012	1,989,997	86,000	1,698,000
Uranium (U)	kg	4,429,058	464,099,607	4,664,000	467,925,000
Zinc	kg	253,329,025	242,806,654	246,613,000	295,936,000
Total Value, Metallic			\$3,809,164,885		\$3,454,323,000

NON-METALLICS	Unit	1980		1981	
		Quantity	Value \$	Quantity \$	Value \$
Barite	tonne	.....	500,000	.....	800,000
Gemstones	kg	.....	51,736	.....	60,000
Gypsum	tonne	740,030	5,728,570	688,000	5,353,000
Magnetite	tonne	.....	57,219	.....	.....
Nepheline Syenite	tonne	599,699	16,544,153	606,000	17,834,000
Peat	tonne	7,721	938,881	8,000	787,000
Quartz	tonne	398,759	8,234,895	1,013,000	11,079,000
Salt	tonne	4,871,117	71,400,615	4,963,000	77,121,000
Soapstone, Talc, Pyrophyllite	tonne	.....	1,697,535	.....	2,684,000
Serpentine Filler	tonne	.....	509,822	.....	.....
Sulphur in smelter gas	tonne	521,144	12,534,923	505,000	12,155,000
Sulphur Elemental	tonne	20,511	906,019	22,000	1,200,000
Total Value, Non-Metallics			\$119,104,368		\$129,073,000

FUELS	Unit	1980		1981	
		Quantity	Value \$	Quantity	Value \$
Natural Gas	000 cu.m.	445,232	33,481,424	407,000	34,768,000
Petroleum	cu.m.	93,882	9,787,181	92,000	10,975,000
Total Value, Fuels		\$43,268,605		\$45,743,000	

STRUCTURAL MATERIALS	Unit	1980		1981	
		Quantity	Value \$	Quantity	Value \$
Clay products .....	.....	58,109,858		.....	69,366,000
Cement.....tonne	4,067,347	190,792,978		3,620,000	200,115,000
Lime .....tonne	1,683,447	74,389,285		1,711,000	103,500,000
Sand & Gravel .....tonne	77,580,254	133,979,765		75,000,000	150,000,000
Stone .....tonne	36,008,178	122,956,588		35,000,000	122,000,000
Total Value, Structural Materials		\$580,228,474			\$644,981,000
GRAND TOTAL FOR ONTARIO		\$4,551,766,332			\$4,274,120,000

..... Figures not available

Source: Mineral Statistics, Ministry of Natural Resources.

MINERAL RESOURCES GROUP

MINING TAXATION & OMEP OFFICE

Room W-4649, Main Office. Telephone (416) 965-1062.

Director and The Mine Assessor	K. S. Rachamalla.....	W-4649... 1062
OMEP		
Administrator.....	F. W. Pooley	W-4650... 1062
Evaluator	B. Gordon	W-4651... 1062

ONTARIO CRUDE OIL

Production in cubic metres and barrels

Year	Annual		Cumulative from 1863	
	m ³	bbl	m ³	bbl
1976.....	98,763	621,508	8,590,226	54,057,445
1977.....	98,047	617,000	8,688,273	54,674,445
1978.....	94,417	593,868	8,782,690	52,268,313
1979.....	92,000	578,663	8,874,690	55,846,976
1980R.....	93,882	590,500	8,968,572	56,437,476
1981*.....	92,000	578,663	9,060,572	57,016,139

ONTARIO NATURAL GAS

Production in cubic metres and cubic feet

Year	Annual		Cumulative from 1890	
	000s m ³	000s cf	000s m ³	000s cf
1976.....	140,438	4,957,616	22,518,772	794,934,893
1977.....	241,523	8,526,000	22,760,295	803,460,893
1978.....	356,205	12,574,626	23,116,500	816,035,519
1979.....	292,000	10,311,883	23,408,500	826,347,402
1980R.....	445,232	15,723,219	23,853,732	842,070,621
1981*.....	407,000	14,373,069	24,260,732	856,443,690

* Preliminary R: Revised

DIRECT COSTS OF THE MINERAL INDUSTRY IN ONTARIO

Year	Total Employment	Wages & Salaries	Fuel & Electricity	Process Supplies	Total Cost
1975	44,329	568,817,097	154,748,157	375,688,838	1,099,254,092
1976	44,585	647,549,765	199,216,913	424,029,472	1,270,796,150
1977	43,782	688,435,301	224,263,043	429,950,598	1,342,648,942
1978	33,234	589,143,142	199,018,565	392,059,456	1,180,221,163
1979	33,860	675,471,862	245,536,846	447,427,618	1,368,436,326
1980***	41,141	859,763,104	293,003,992	598,111,499	1,750,878,595

*** 44,000 including 3,300 estimate of small sand, gravel and stone industries February 22, 1982.

MINING TAX

Summary of mining tax in years ending March 31

	1981 \$ value millions	1982 \$ value millions
Mining tax collected	160.5	55.4
Total value of mineral production assessed.....	2,550.0	1,720.9
Taxes payable per assessments	44.5	88.9
Total additional tax, interest & penalty.....	1.1	2.2
Total refund of taxes (paid in advance).....	.8	4.8
No. of assessments completed	45	48

OMEP DESIGNATED PROGRAMS REGIONAL DISTRIBUTION

In years ending March 31

MNR Regions	No. of Programs		Total Expenditure (\$ million)		% of Total	
	1981	1982	1981	1982	1981	1982
Northern	46	54	19.8	8.6	58.4	33.1
Northwestern	16	21	5.6	5.7	16.6	21.7
Northeastern	14	23	6.6	5.6	19.4	21.3
North Central	12	25	1.6	5.0	4.9	19.0
Algonquin & Eastern	6	14	.2	1.3	.7	4.9
Total	94	137	\$33.9	\$26.2	100.0%	100.0%

OMEP DESIGNATED PROGRAMS BY COMMODITIES

In years ending March 31

	Total Expenditure (\$ million)		% of Total	
	1981	1982	1981	1982
Gold, Silver	29.3	20.3	86.3	77.6
Base Metals	1.2	1.6	3.5	6.2
Industrial Minerals	3.0	4.2	9.0	16.0
Other (uranium, etc) . . . . .	.4	—	1.2	.2
Total	33.9	26.2	100.0	100.0

DETAILS OF COMPLETED OMEP PROGRAMS: REGIONAL DISTRIBUTION

In years ending March 31

	Number		Total Expenses (\$ million)		Eligible Expenses (\$ million)		Grant/Tax Credit (\$ million)		% of Total	
	1981	1982	1981	1982	1981	1982	1981	1982	1981	1982
Northern	18	22	3.6	4.3	3.2	2.9	.8	.73	60.0	58.9
Northwestern	3	9	.4	1.3	.4	1.2	.1	.31	8.0	17.8
Northeastern	12	10	1.8	.8	1.4	.8	.4	.19	27.0	11.0
North Central	5	9	.2	.8	.2	.6	.05	.14	3.0	11.0
Algonquin & Eastern	4	4	.1	.1	.1	.1	.02	.02	2.0	1.3
Total	42	54	6.1	7.3	5.3	5.6	1.37	1.39	100.0	100.0

OUTDOOR RECREATION GROUP

Room W-2340, Main Office. Telephone (416) 965-5661.

Executive Co-ordinator	L. H. Eckel	W-2341 . . . 5661
Secretary	Miss N. Nishi	W-2340 . . . 5661
Administration.....	P. S. King	W-2311 . . . 5661
Provincial Fisheries Scientist	K. H. Loftus	W-2342 . . . 5661
Program Analyst	S. Fasken	W-2342 . . . 5661
Enforcement Specialist	G. D. Gartley.....	W-2342 . . . 5661
Librarian.....	Mrs. S. Louet	W-4540 . . . 5661
Provincial Parks Council, Chairman	F. Gray.....	(416) 368-8305 Ex. 2574

WILDLIFE BRANCH

Room W-2320, Main Office. Telephone (416) 965-4251.

Branch Director	J. D. Roseborough.....	W-2327 . . . 4254
Program Development & Audit Section..	D. A. Hagan, Spvr.....	W-2321 . . . 4251
Habitat Development	D. L. Euler.....	W-2323 . . . 4251
Moose/Caribou Program.....	R. A. Stefanski.....	W-2331 . . . 4251
Upland Game/Waterfowl Program.....	J. L. Harcus	W-2332 . . . 4251
Deer/Bear Program	H. Smith	W-2330 . . . 4251
Non-game Program	I. E. Bowman	W-2322 . . . 4251
Wetland Habitat Co-ordination	V. A. Glooschenko	W-2303 . . . 7641
Policy Development Section	L. J. Post, Spvr.....	W-2306 . . . 7641
Wildlife Policy Specialist	P. Allen	W-2309 . . . 7641
Wildlife Policy Specialist	W. L. Sleeth	W-2307 . . . 7641
Extension Development Section	L. Whistance-Smith, Spvr.	W-2326 . . . 4251
Wildlife Services Section	M. C. Smith, Spvr.....	W-2328 . . . 4251
Commercial Wildlife Program	M. Novak	W-2423 . . . 3345
Hunter Education	W. M. McKittrick	W-2333 . . . 4251
Legal Services	M. Chromec	W-2329 . . . 4251
Data System.....	J. M. Barbowski	W-2325 . . . 4251

Box 50, Maple, Ont. L0J 1E0. Telephone (416) 832-2761.

Wildlife Research Section	C. D. MacInnes, Spvr.	Extension 241
Bio-Electronic Scientist	J. S. Lotimer.....	Extension 421
Field Studies Scientist	D. R. Voigt	Extension 241
Rabies Unit Leader	D. H. Johnston	Extension 241
Upland Game/Waterfowl Scientist	H. G. Lumsden.....	Extension 241
Predator Scientist	G. B. Kolenosky	Extension 241
Disease/Parasites Scientist	E. M. Addison	Extension 241

HUNTING STATISTICS — Estimates compiled from hunters surveyed by mail

Comparison between hunter numbers and licence sales gives an estimate of the number of licence holders who did not hunt.

MOOSE		RESIDENT		NON-RESIDENT		TOTALS			
Year	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
1976	75,670	543,200	9,420	7,770	55,400	1,450	83,440	598,600	10,870
1977	66,240	470,000	7,730	6,280	45,000	1,290	72,550	515,700	9,020
1978	79,210	542,000	10,630	6,970	52,100	1,320	86,180	594,100	11,950
1979	70,770	529,400	10,110	7,220	54,600	1,580	77,990	584,000	11,690
1980	71,670	426,700	7,670	3,930	25,200	690	75,600	451,900	8,360
1981	66,850	405,500	7,630	3,110	19,400	460	69,960	429,900	8,090

DEER		RESIDENT		NON-RESIDENT		TOTALS			
Year	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
1976	78,250	433,900	14,180	3,240	16,700	*930	81,490	450,600	*15,110
1977	85,840	433,200	13,510	2,720	14,300	*810	88,200	447,500	*14,310
1978	87,950	450,100	13,490	2,860	14,600	*480	90,810	464,700	*13,970
1979	78,440	415,800	13,200	1,560	8,700	*370	80,000	424,500	*13,570
1980	80,280	443,200	9,150	780	4,400	*110	81,060	447,600	9,260

SMALL GAME**		RESIDENT		NON-RESIDENT		SUMMER HUNTING		RESIDENT
Year	Hunters	Hunter Days	Hunters	Hunter Days	Year	Hunters	Hunter Days	
1974-75	225,840	3,299,000	7,380	52,100	1972	18,720	369,500	
1976-77	242,310	3,388,000	8,530	62,300	1974	16,380	291,800	
1978-79	226,693	2,975,400	8,724	55,100	1975	16,170	246,800	
1979-80	214,550	2,829,600	10,520	65,700				
1980-81	220,020	2,781,300	11,170	76,100				

* Includes deer harvested on moose licences.

** Includes waterfowl.

EXPENDITURE BY HUNTERS — (Excluding Licence Fees)

Survey Year*	Hunt	Estimates Compiled from Hunters Surveyed by Mail	Resident	Non-Resident	Total
1973-74....	Bear.....	\$ 255,000	\$2,336,000	\$ 2,591,000	
1973-74....	Moose.....	13,791,000	6,070,000	19,861,000	
1976-77....	Moose.....	17,821,000	3,192,000	21,013,000	
1976-77....	Deer.....	12,000,000	809,000	12,809,000	
1976-77....	Small Game	53,561,000	3,252,000	56,813,000	
1978-79....	Small Game	47,634,000	3,278,431	50,912,431	
1979-80....	Moose.....	22,833,000	3,803,000	26,636,000	
1979-80....	Deer.....	14,892,000	548,000	15,440,000	
1979-80....	Small Game	47,162,000	4,413,000	51,575,000	
1980-81....	Moose.....	21,334,000	2,302,000	23,636,000	
1980-81....	Deer.....	15,887,000	297,000	16,184,000	
1980-81....	Small Game	50,000,000	4,563,000	54,563,000	
1981-82....	Moose.....	23,576,000	1,929,000	25,505,000	

HUNTING LICENCES SOLD

Year	DEER		MOOSE		BEAR	
	Resident	Non-Res	Resident	Non-Res	Resident	Non-Res
1977-78	95,114	4,501	74,834	6,392	1,872	8,977
1978-79	97,477	4,453	87,751	7,186	2,672	10,477
1979-80	85,921	1,762	77,937	7,378	2,666	11,247
1980-81	87,985	823	79,688	4,011	9,064	11,682
1981-82	91,695	630	73,851	3,214	12,736	13,341

Year	SMALL GAME		TOTAL		
	Resident	Non-Res	Resident	Non-Resident	Total
1977	389,014	9,225	569,834	29,095	589,929
1978	399,943	9,651	587,643	31,767	619,410
1979	353,077	11,527	519,601	31,914	551,515
1980-81	383,091	12,783	559,828	29,299	589,127
1981-82	368,770	12,492	550,924	29,677	580,601

LAW ENFORCEMENT

	No. of COs	No. of CO Badges	No of Dep. COs	F & W Contacts	Officer Warnings	F & W Charges
1980-81	226	335	278	318,719	11,117	7,718
1981-82	222	343	331	346,959	12,303	7,595

	Non-F & W Charges	Total Charges	F & W Fines	Other Fines	Total Fines
1980-81	2,924	10,642	\$508,467	\$119,441	\$627,908
1981-82	3,225	10,820	568,989	160,853	729,842

FUR HARVESTS — in years ending June 30

Average Pelt Value, 1980	Totals from Sealing Officers' Reports and Fur Dealers' Returns				
	1977	1978	1979	1980	1981
\$ 34.36 Beaver	136,856	147,556	170,644	209,135	181,383
30.20 Mink.....	14,856	20,557	21,704	27,377	29,944
26.63 Marten.....	20,768	38,878	52,169	45,861	45,305
60.87 Otter	7,835	8,592	9,943	11,112	10,952
141.55 Fisher	2,165	2,693	3,300	4,457	4,013
267.71 Lynx.....	1,151	1,722	1,873	2,485	2,361
126.37 Bobcat.....	24	16	30	33	21
7.48 Muskrat.....	435,290	433,163	526,890	605,966	554,894
29.67 Raccoon	44,223	93,178	105,263	116,249	108,164
1.35 Squirrel	5,817	4,180	7,645	16,922	15,836
.89 Weasel.....	3,576	3,685	5,694	6,100	7,187
71.29 Col'd Fox	10,131	15,979	19,282	18,854	15,548
29.79 Arctic Fox	101	199	164	176	163
89.33 Timb. Wolf.....	285	431	381	342	748
54.47 Coyote.....	2,276	4,394	3,218	3,819	2,646
52.31 Black Bear.....	283	284	511	818	482
185.36 Wolverine .....	.....	11	8	9	9
3.05 Skunk.....	98	210	453	662	438
45.17 Grey Fox .....	.....	1	3	1	6
488.33 Polar Bear	17	24	21	20	27
Total Pelts	685,752	775,753	929,196	1,070,398	980,127
Total Value	7,998,708	11,284,007	20,234,367	24,407,054	18,965,648

TRAPPER LICENCES, 1981

Registered	3,123 @ \$5 =	\$15,615
Resident	9,991 @ \$5 =	49,955
Farmer, Indian Res.	1,612 @ \$0 =	.....
Registered Treaty.....	3,315 @ \$1 =	3,315
Resident Treaty	25 @ \$5 =	125
Totals	18,071	\$69,010
Raccoon Hunters.....	3,231 @ \$5 =	\$16,155

HUNTER EDUCATION PROGRAM

Training began in 1957. It became mandatory for new hunters in 1960 and for new hunters under the age of 20 years in 1968.

Year	ACTIVE INSTRUCTORS at Dec. 31	STUDENTS TRAINED		HUNTING ACCIDENTS		
		Yearly	To Date	Non-Fatal	Fatal	Total
1977	1,011	32,126	452,298	67	4	71
1978	879	38,500	490,798	60	8	68
1979	1,110	35,080	525,878	46	5	51
1980	1,320	38,730	564,608	56	6	62
1981	1,406	39,625	604,233	33	3	36

Total royalties collected in the 1980-81 season were \$1,115,412.

29 PROVINCIAL WILDLIFE AREAS

	Hectares	Acres
Aylmer Provincial Wildlife Area	150	371
Brighton Provincial Wildlife Area	388	959
Bruce Recreation Area	3 925	9,699
Camden Lake Wildlife Management Area	1 052	2,599
Darlington Provincial Park	111	274
Fingal Provincial Wildlife Area	293	724
Gananoque Provincial Wildlife Area	580	1,433
Holiday Beach Provincial Park	198	489
Holland Marsh Provincial Wildlife Area	573	1,416
Hoople Creek Provincial Wildlife Area	105	259
Hullett Provincial Wildlife Area	2 794	6,904
Kolapore Uplands Recreational Area	4 209	10,400
Long Point Provincial Wildlife Area	500	1,235
Luther Marsh Wildlife Area	5 666	14,001
Matchedash Bay Provincial Wildlife Area	225	556
Mountain Provincial Wildlife Area	1 457	3,600
Nonquon River Wildlife Area	1 133	2,800
Point Petre Provincial Wildlife Area	1 276	3,153
Presqu'ile Provincial Park	931	2,300
Puslinch Crown Resource Management Area	138	341
Rankin Wildlife Management Area	3 800	9,390
Rondeau Provincial Park	4 654	11,500
St. Edmunds Provincial Wildlife Area	6 799	16,800
Scugog Island	182	450
Sibbald Point Provincial Park	225	556
Stag Island Wildlife Management Area	17	42
Tiny Marsh Provincial Wildlife Area	931	2,300
Wye Marsh Provincial Wildlife Area	919	2,271

13 WILDLIFE EXTENSION LANDOWNER AGREEMENT AREAS

	Hectares	Acres
Aylmer Ponds	43	106
Beverly Swamp	430	1,063
Binbrook	401	991
Calton Swamp	96	237
Christie	340	840
Crooks Hollow	17	42
Hawk Cliff	34	84
Lake St. Lawrence	6 070	14,999
Mud Lake	61	151
Orangeville Reservoir	316	781
Valens	223	551
Waterford Lakes	290	717
Willoughby Marsh	227	561

OUTDOOR RECREATION GROUP

PARKS AND RECREATIONAL AREAS BRANCH

Room W-3329, Main Office. Telephone (416) 965-5160

Branch Director	N. R. Richards	W-3329 . . . 5160
Policy Co-ordinator	W. B. Sargent	W-3329 . . . 2745
Secretary	Mrs. M. Naumoff	W-3329 . . . 2745
Planning Manager	G. D. Boggs	W-3342 . . . 3981
Planning Secretary	Mrs. E. Mason	W-3342 . . . 3981
Planning Stenographer	Miss J. Mount	W-3340 . . . 3981
Sr. Planner, Research	D. Hallman	W-3344 . . . 3981
Sr. Planner, Parks & Heritage Res	M. Garscadden	W-3343 . . . 3981
Sr. Planner, Rec. Areas & Resources	K. McCleary	W-3350 . . . 3981
Research Planner	D. Driscoll	W-3352 . . . 3981
Recreational Areas Planner	R. Phillips	W-3346 . . . 3981
Earth Sciences Planner	R. J. Davidson	W-3349 . . . 3981
Life Sciences Planner	T. J. Beechey	W-3348 . . . 3981
Cultural Resources Heritage Planner	G. Forma	W-3345 . . . 3981
Planning Technician	R. Speck	W-3351 . . . 3981
Operations Manager	W. Robertson	W-3521 . . . 1245
Operations Secretary	Mrs. J. Miller	W-3521 . . . 1245
Operations Steno	Ms. R. Coombs	W-3521 . . . 1245
Parks Operations Officer	J. D. Barrow	W-3521 . . . 1245
Parks Technician	B. van Staalduin	W-3521 . . . 1245
Visitor Services Specialist	K. Vogan	W-3521 . . . 1245
Recreational Areas Technician	B. Huis	W-3521 . . . 1245
Extension Specialist	F. Bishop	W-3521 . . . 1245
Mgmt. Information Clerk	Ms. D. Gluzdziecka	W-3521 . . . 1245
Development Manager	G. Ashenden	W-3320 . . . 2745
Development Secretary	Mrs. G. Shaw	W-3320 . . . 2745
Development Clerk	Ms. P. A. Naylor	W-3320 . . . 2745
Receptionist	Mrs. R. Watkins	W-3320 . . . 2745
Senior Landscape Architect	G. Pittenger	W-3320 . . . 2745
Landscape Architect	J. Huang	W-3320 . . . 2745
Design Engineer	R. H. Lockwood	W-3320 . . . 2745
Development Engineer	I. Johnson	W-3320 . . . 2745
Environmental Sanitation Co-ord	S. Cowan	W-3320 . . . 2745
Draftsperson	Ms. M. Lehoczky	W-3320 . . . 2745
Design Co-ordinator	H. Miles	W-3320 . . . 2745
Sanitary Engineer	J. Kolodziej	W-3320 . . . 2745
Electrical Designer	J. Konya	W-3320 . . . 2745
Architectural Designer	A. Chappelle	W-3320 . . . 2745
Mechanical Designer	G. Szepielewicz	W-3320 . . . 2745

PUBLIC USE OF PROVINCIAL PARKS

Year	Vehicle Entries	Interior Campers	Campers	Average Days	Camper Nights	Total of Visitors
1977	3,276,625	92,611	1,371,039	2.6	3,571,581	10,431,166
1978	2,940,238	82,601	1,324,808	2.3	3,116,421	9,570,382
1979	(NR)	73,961	1,355,733	2.4	3,259,752	**5,161,563
1980	(NR)	76,136	1,319,762	2.4	3,195,477	5,210,712
1981	(NR)	74,199	1,321,494	2.5	3,283,299	****5,948,528

PERSONAL VISITOR SERVICES CONTACTS

Year	Parks	Guided Tours	Film Programs	Other Programs	Individual Contacts	Total Contacts
1980	56	43,278	163,877	88,338	196,882	492,375
1981	64	49,478	199,417	105,548	226,354	580,797

NON-PERSONAL VISITOR SERVICES CONTACTS

Year	Parks	Visitor Activity Centres	Interpretive Publications		Self-Guiding Interpretive Trails	Total Contacts
			Free	Priced		
1980	59	423,191	787,004	71,926	361,663	1,643,784
1981	63	450,199	839,945	78,596	384,426	1,753,166

GROWTH OF PROVINCIAL PARKS — Areas in hectares and acres

Year	Parks	Camping Units	No.	Reserve Areas ha	Ac	No.	Provincial Parks ha	Ac
1977	97	20,035	107	951,760	2,351,800	126	4,360,546	10,775,144
1978	98	20,176	139	964,334	2,382,913	128	*4,269,268	*10,543,250
1979	97	20,723	134	920,558	2,274,738	128	*4,255,375	*10,514,349
1980	97	20,723	101	949,726	2,347,409	131	4,257,266	10,518,947
			37	***18,167	45,092			
1981	97	20,757	101	949,726	2,347,409	131	4,252,960	10,508,307
			37	18,167	45,092			

*Boundaries of some parks redefined.

**Visitation calculated from permit sales.

***Any area acquired by MNR for recreational purposes other than for use as a Provincial Park.

****Includes free day-use visitors.

NR — Vehicle entries no longer recorded.

131 PROVINCIAL PARKS IN OPERATION IN 1981

Region, District Provincial Park	Area Hectares	Area Acres	Developed Campsites	Campers	Camper Nights
NORTHWESTERN REGION					
RED LAKE					
Pakwash	631	1,558	60	2,244	3,297
KENORA					
Rushing River	190	469	192	21,298	51,266
Sioux Narrows.....	129	320	71	5,349	9,257
FORT FRANCES					
Caliper Lake	134	331	92	6,976	12,119
Lake of the Woods	1,097	2,711	100	6,291	12,795
DRYDEN					
Aaron	70	173	98	7,214	9,638
Blue Lake.....	354	874	188	15,030	36,911
SIOUX LOOKOUT					
Ojibway	2,630	6,500	50	4,317	4,316
IGNACE					
Sandbar Lake	3,157	7,800	75	9,087	11,934
Total, 9 Parks.....	8,392	20,736	926	77,806	151,533
NORTH CENTRAL REGION					
ATIKOKAN					
Quetico (Dawson Trail).....	475,819	1,175,773	133	4,440	9,636
THUNDER BAY					
Inwood.....	33	82	85	5,460	5,557
Kakabeka Falls	420	1,039	156	27,338	38,912
Middle Falls.....	4	11	25	1,990	2,292
Sibley.....	24,435	60,380	217	12,573	27,659
NIPIGON					
Lake Nipigon.....	1,458	3,604	80	3,400	5,181
GERALDTON					
Klotz Lake	119	293	30	1,933	1,933
MacLeod	74	183	85	4,618	12,533
TERRACE BAY					
Neys.....	3,445	8,512	146	17,568	26,698
Rainbow Falls	575	1,422	230	19,400	23,430
Total, 10 Parks.....	506,382	1,251,299	1,187	98,720	153,831
NORTHERN REGION					
HEARST					
Fushimi Lake.....	5,294	13,081	39	3,828	8,911
Nagagamisis	8,131	20,092	165	5,193	13,829
MOOSONEE					
Polar Bear	2,408,700	5,952,018	—	—	—
Tidewater.....	980	2,421	36	1,337	1,337
KAPUSKASING					
Remi Lake	2,964	7,325	122	5,993	13,465
COCHRANE					
Greenwater	5,350	13,220	104	4,452	9,319
TIMMINS					
Kettle Lakes	1,261	3,116	165	9,176	28,679

Region, District Provincial Park	Hectares	Area Acres	Developed Campsites	Campers	Camper Nights
KIRKLAND LAKE					
Esker Lakes.....	3,237	8,000	136	4,715	13,064
Kap-Kig-Iwan.....	276	681	64	4,315	7,204
CHAPLEAU					
Five Mile Lake.....	456	1,128	43	2,917	4,059
Ivanhoe Lake.....	1,589	3,926	149	4,652	13,468
Missinaibi Lake.....	44,061	108,877	50	2,681	9,126
The Shoals.....	11,198	27,670	60	3,776	5,243
Wakami Lake.....	8,806	21,760	68	2,946	12,919
Total, 14 Parks.....	2,502,303	6,183,315	1,201	55,981	140,623
NORTHEASTERN REGION					
WAWA					
Lake Superior	155,659	384,641	307	27,314	39,628
Obatanga.....	9,409	23,250	132	12,727	18,246
White Lake.....	1,726	4,265	183	16,291	27,057
SAULT STE. MARIE					
Batchawana.....	169	418	—	—	—
Pancake Bay.....	466	1,151	340	31,711	48,518
BLIND RIVER					
Mississagi.....	2,883	7,124	101	5,113	15,736
ESPAÑOLA					
Chutes.....	108	268	95	18,188	24,017
SUDSBURY					
Fairbank.....	105	260	160	7,546	18,782
Halfway Lake.....	4,730	11,688	215	12,613	28,269
Killarney.....	34,126	84,328	122	7,836	30,345
Windy Lake.....	118	292	83	4,549	13,547
TEMAGAMI					
Finlayson Point	37	92	114	7,263	15,735
NORTH BAY					
Antoine	12	30	30	N/A	185
Marten River.....	418	1,034	216	10,807	26,575
Restoule	662	1,635	278	8,342	36,485
Samuel de Champlain	2,349	5,805	216	10,518	21,821
Total, 16 Parks.....	212,977	526,281	2,592	180,818	364,946
ALGONQUIN REGION					
PARRY SOUND					
Grundy Lake	2,554	6,310	520	21,190	58,796
Killbear	1,756	4,340	885	37,041	168,527
Oastler Lake	32	78	148	12,571	33,102
Sturgeon Bay.....	14	35	82	5,328	16,449
BRACEBRIDGE					
Arrowhead.....	963	2,379	389	25,830	74,669
Mikisew	131	324	265	11,798	30,729
BANCROFT					
Lake St. Peter	25	62	62	2,929	8,235
Petroglyphs.....	1,555	3,842	—	—	—
Silent Lake.....	844	2,085	167	11,803	23,975
ALGONQUIN PARK					
Algonquin	765,345	1,891,206	1,390	81,357	218,349
Driftwood.....	265	655	77	4,944	9,927

Region, District Provincial Park	Hectares	Area Acres	Developed Campsites	Campers	Camper Nights
PEMBROKE					
Bonnechere.....	113	280	113	5,226	18,160
Carson Lake	13	32	43	4,881	4,881
Total, 13 Parks.....	773,610	1,911,628	4,141	224,898	665,799
EASTERN REGION					
CARLETON PLACE					
Fitzroy	185	457	248	12,480	24,983
Murphys Point.....	1,240	3,061	176	7,605	17,886
Rideau River	98	242	185	8,321	16,710
Silver Lake.....	43	107	151	9,420	23,443
CORNWALL					
Carillon	1,417	3,501	416	14,825	31,388
South Nation.....	5	13	—	—	—
BROCKVILLE					
Charleston Lake	902	2,230	242	13,484	43,605
TWEED					
Bon Echo.....	6,644	16,417	500	25,232	88,506
Sharbot Lake.....	69	170	190	8,612	23,303
NAPANEE					
Ferris	198	490	163	3,719	7,155
Lake on the Mountain.....	104	256	—	—	—
North Beach	89	221	—	—	—
Outlet Beach, Sandbanks ...	1,002	2,477	433	31,742	109,134
Presqu'ile	937	2,315	394	31,430	70,762
Total, 15 Parks.....	12,933	31,957	3,098	166,870	456,875
CENTRAL REGION					
LINDSAY					
Balsam Lake	449	1,109	483	27,732	81,238
Darlington	209	516	357	30,111	66,633
Emily	83	206	299	17,411	51,123
Mark S. Burnham	39	97	—	—	—
Serpent Mounds	56	138	113	12,413	33,143
HURONIA					
Awenda	1,552	3,835	150	11,444	26,845
Bass Lake	39	96	92	13,279	25,755
Devil's Glen.....	6	14	45	3,671	5,302
Earl Rowe.....	300	742	555	30,210	73,891
Mara.....	45	112	106	7,149	17,917
McRae Point	138	340	203	13,070	32,827
Six Mile Lake.....	94	233	192	18,203	41,075
Springwater.....	47	117	—	—	—
Wasaga Beach	1,545	3,817	—	—	—
MAPLE					
Sibbald Point.....	225	556	656	39,191	92,740
CAMBRIDGE					
Bronte Creek.....	640	1,581	—	—	—
NIAGARA					
Rock Point.....	98	242	128	14,119	16,260
Total, 17 Parks.....	5,565	13,751	3,377	238,003	564,749

Region, District Provincial Park	Hectares	Area Acres	Developed Campsites	Campers	Camper Nights
SOUTHWESTERN REGION					
SIMCOE					
Long Point.....	141	349	265	22,335	73,634
Selkirk	73	180	145	6,387	18,075
Turkey Point	350	864	473	11,139	24,633
AYLMER					
Iroquois Beach	227	560	232	17,378	37,111
John E. Pearce	68	168	—	—	—
Port Bruce	5	13	—	—	—
CHATHAM					
Holiday Beach.....	92	227	45	4,060	8,633
Ipperwash	56	138	263	19,963	72,881
Peche Island	153	379	—	—	—
Pinery.....	2,542	6,281	1,250	77,672	249,965
Rondeau	4,816	11,900	226	18,436	57,299
Wheatley	241	596	210	14,171	29,300
WINGHAM					
Point Farms.....	308	760	200	13,303	38,831
OWEN SOUND					
Craigleith.....	66	162	172	21,573	45,540
Cypress Lake	669	1,654	242	23,908	56,611
Fathom Five	9,977	24,653	—	—	—
Inverhuron.....	289	713	—	—	—
MacGregor Point.....	1,001	2,473	360	15,268	39,188
Sauble Falls.....	20	50	152	12,805	33,242
Total, 19 Parks.....	21,094	52,120	4,235	278,398	784,943
WATERWAY PARKS					
Chapleau-Nemegosenda					
River.....	8,159	20,160	(Chapleau)	....	....
Lady Evelyn.....	2,464	6,088	(Temagami)	....	....
Mattawa River.....	3,258	8,050	(North Bay)	....	....
Mississagi River	19,814	48,960	(Blind River, Espanola, Chapleau)	....	....
Winisk	174,000	429,000	(Geraldton)	....	....
Total, 5 Parks.....	207,695	512,258	....	....	....
NATURE RESERVE PARKS					
Cavern Lake.....					
East Sister Island	189	467	(Thunder Bay)	....	....
Gibson River	53	131	(Chatham)	....	....
Limestone Island	168	415	(Huronia)	....	....
Matawatchan.....	450	1,112	(Parry Sound)	....	....
Montreal River.....	65	160	(Pembroke)	....	....
Ojibway Prairie	44	108	(Sault Ste. Marie)	....	....
Ouimet Canyon.....	65	161	(Chatham)	....	....
Peters Woods	777	1,920	(Thunder Bay)	....	....
Shreiber Channel	34	83	(Lindsay)	....	....
Porphyry Island.....	13	32	(Thunder Bay)	....	....
Trillium Woods	107	264	(Thunder Bay)	....	....
Waubashene Beaches	10	25	(Aylmer)	....	....
Total, 13 Parks.....	34	84	(Huronia)	....	....
TOTAL, 131 Parks	2,009	4,962	....	....	....
	4,252,960	10,508,307	20,757	1,321,494	3,283,299

101 PROVINCIAL PARK RESERVE AREAS IN 1981

Region, District Reserve Area	Hectares	Area Acres
NORTHWESTERN REGION		
RED LAKE		
Berens Dowling	30,845	76,218
Lund Lake	2,851	7,045
Stout Lake	218,192	539,152
Telescope Lake	5,962	14,732
Woodland Caribou	360,806	891,551
KENORA		
Pipestone Peninsula	1,429	3,530
Pistol Lake	1,629	4,025
FORT FRANCES		
Pow-Wow Grounds	700	1,730
Sand Point Island	889	2,197
Total, 9 Areas	623,303	1,540,180
NORTH CENTRAL REGION		
ATIKOKAN		
White Otter Lake	24,281	60,000
THUNDER BAY		
Arrow Lake	40	100
Arrow Lake	405	*1,000
Arrowhead Peninsula	344	850
Inwood	405	1,000
Kashabowie	2,064	5,100
La Verendrye W.R.	1,311	3,240
Middle Falls	961	2,374
Silver Falls	3,561	8,800
NIPIGON		
Cypress River	240	593
Gravel River	324	800
Humboldt Bay	29,542	73,000
Kopka Lake	4,047	10,000
Partridge Lake	2,631	6,500
GERALDTON		
Esnagami Lake	23,472	58,000
Lukinto Lake	911	2,250
Purgatory Chutes	40	100
TERRACE BAY		
Slate Island	3,963	9,793
Total, 18 Areas	98,542	243,500
NORTHERN REGION		
HEARST		
Nagagami Lake	1,481	3,660
KAPUSKASING		
Missinaibi W.R.	38,046	94,013

* Provincial Park not in operation.

Region, District Reserve Area		Hectares	Area Acres
COCHRANE			
Long Point Peninsula	2,552	6,304	
Otter Rapids	197	486	
Pierre Montreuil	17,032	42,088	
TIMMINS			
Dana-Jowsey Lakes	2,547	6,294	
KIRKLAND LAKE			
McCann	259	640	
CHAPLEAU			
Missinaibi Lake	1,481	3,660	
The Shoals	6,227	15,387	
MOOSONEE			
Kwataboahenan River	94	232	
Total, 11 Areas	70,422	174,014	
NORTHEASTERN REGION			
WAWA			
Kakakiwibik	23,829	58,881	
Pothole	352	870	
SAULT STE. MARIE			
Marks Bay	104	258	
BLIND RIVER			
Aubrey Falls	6,880	17,000	
Mashagami	259	640	
Mississagi	39,255	97,000	
ESPAÑOLA			
La Cloche	4,969	12,278	
Misery Bay	697	1,743	
SUDBURY			
Mashkinonje	940	*2,322	
Wanapitae Lake	2,790	6,890	
TEMAGAMI			
W.B. Greenwood	9,308	23,000	
NORTH BAY			
Restoule	467	1,155	
South Bay	1,604	3,963	
Total, 14 Areas	91,454	226,000	
ALGONQUIN REGION			
BRACEBRIDGE			
Bigwind Lake	1,878	4,638	
Chetwynd	85	210	
Hardy Lake	602	1,488	
Ragged Falls	139	344	
MINDEN			
Red Pine Lake	3,173	7,837	
BANCROFT			
Kawartha Highlands	1,587	3,921	
McKenzie Lake	1,539	3,802	
PEMBROKE			
Centennial Lake	3,833	9,468	
Madawaska River	1,233	3,044	
Round Lake	124	307	

*Provincial Park not in operation.

Region, District Reserve Area	Hectares	Area Acres
PARRY SOUND		
Blackstone Harbour	12,086	29,851
Magnetawan W.R.	9,256	23,530
McDonald Bay	578	1,426
O'Donnell Point	786	1,943
Round Lake	11,241	27,764
Shawanaga Basin	1,287	3,179
Total, 16 Areas	49,427	122,752
EASTERN REGION		
BROCKVILLE		
Blue Mountain	726	1,795
CARLETON PLACE		
Kilmarnock	26	63
Mouth of Tay	64	159
TWEED		
Baudner Property	35	86
NAPANEE		
Casey Point	33	81
Frontenac	5,130	*12,676
Total, 6 Areas	6,014	14,860
CENTRAL REGION		
HURONIA		
Bass Lake	185	457
Boyne Valley (Primrose)	1,073	2,652
Couchiching	44	108
Devil's Glen	55	135
Giant's Tomb	479	1,184
Lavender Falls	202	499
Matchedash	2,509	6,200
Mono Cliffs	618	1,527
Nottawasaga Lookout	219	540
Scott's Falls	484	1,196
MAPLE		
Credit Forks	205	507
Duclos Point	137	338
CAMBRIDGE		
Cranberry Bog	9	20
LINDSAY		
Harris Island	75	186
Indian Point	857	2,118
Kendal Recreation Area	349	863
Quackenbush Site	39	97
Scugog Island	168	415
Wolf Island	330	814
NIAGARA		
James N. Allen	113	278
Short Hills	617	1,523
Total, 21 Areas	8,767	21,657

* Provincial Park not in operation.

Region, District Reserve Area	Hectares	Area Acres
SOUTHWESTERN REGION		
AYLMER		
Kamoka	501	1,237
CHATHAM		
Fish Point	110	273
Lighthouse Point	97	246
OWEN SOUND		
Black Creek	285	704
Cyprus Lake	287	709
Hope Bay	517	1,277
Total, 6 Areas	1,797	4,446
TOTAL, 101 Areas	949,726	2,347,409

* 37 PROVINCIAL PARK SPECIAL AREAS IN 1981

Region, District Special Area	Hectares	Area Acres
NORTH CENTRAL REGION		
ATIKOKAN		
Warner Lake	302	745
NIPIGON		
Gravel Bay	101	250
TERRACE BAY		
Steel River	1,093	2,700
Total, 3 Areas	1,496	3,695
NORTHERN REGION		
HEARST		
Rogers	611	1,510
Total, 1 Area	611	1,510
ALGONQUIN REGION		
MINDEN		
Buckhorn	385	950
Gull River	27	67
PARRY SOUND		
C.N.R. Line	269	664
Franklin Islands	7	18
Total, 4 Areas	688	1,699
EASTERN REGION		
CORNWALL		
Cornwall Recreation Area	83	204
Total, 1 Area	83	204
CENTRAL REGION		
HURONIA		
Allandale	80	198
Gloucester Pool	36	89
Minesing Swamp	450	1,112
MAPLE		
Cheltenham Property	100	246
Grange Property	142	350
CAMBRIDGE		
Burlington Parkway Property	26	65
Yaremko-Ridley	64	160
Total, 7 Areas	898	2,220

* Any area initially acquired by the M.N.R. for recreational park purposes other than for use as a Provincial Park.

Region, District Special Area	Hectares	Area Acres
SOUTHWESTERN REGION		
AYLMER		
East-Zorra Trail	24	60
CHATHAM		
Fox Property	7	18
Tremblay Beach	62	154
WINGHAM		
Stinsin Estate	48	119
OWEN SOUND		
Beaver Valley Lowlands	540	1,334
Beaver Valley Ski Area	297	735
Cape Chin	437	1,285
Colpoys Bay	213	523
Dorcas Bay	68	168
Dunks Bay	16	39
Dyer Bay	79	194
Eugenia Lake	4	10
Hoggs Falls	82	204
Johnston Harbour	3,157	7,801
Kolapore Uplands	1,945	4,805
Lions Head Lookout	1	3
Lions Head Recreation Area	494	1,221
Meaford Lookout	404	997
Pretty River Valley	879	2,171
Spring Creek	2,104	5,200
Umbrella Lake	3,530	8,723
Total, 21 Areas	14,391	35,764
TOTAL, 37 Areas	18,167	45,092

OUTDOOR RECREATION GROUP

FISHERIES BRANCH

Room W-2354, Main Office.

Telephone (416) 965-7883.

Branch Director
 Client Services Section
 Co-ordinator, Policy Development
 Co-ordinator, Public Involvement
 Extension Specialist
 Data Systems Biologist
 Data & Information Biologist
 Economist
 Commercial Development Co-ordinator
 SPOF Policy & Implementation Co-ord.
 Fish Culture Section
 Production Biologist
 Fish Health Biologist
 Fish Nutrition Specialist
 Fish Culture Operation Co-ordinator
 Fish Culture Systems Specialist
 Environmental Dynamics Section
 Habitat Enhancement Biologist
 Habitat Protection Biologist
 Aquatic Habitat Inventory Biologist
 Inventory Data Systems & Lab Spec.
 Aquatic Habitat Acidification Spec.

A. S. Holder	W-2347 . . . 5947
G. R. Whitney, Mgr.	W-2349 . . . 7885
F. P. Maher	W-2346 . . . 7885
C. I. Goddard	W-2350 . . . 7885
A. A. Wainio	W-2353 . . . 7885
W. G. Simpson	W-2446 . . . 7885
L. Greig	W-2443 . . . 7885
N. Bedi	W-2442 . . . 7885
J. C. Tilt	W-2442 . . . 7885
J. A. Cherry	W-2344 . . . 7885
J. M. Byrne, Spvr.	W-2451 . . . 7886
J. D. Hynes	W-2449 . . . 7886
A. Sippel	W-2453 . . . 7886
C. Y. Cho	(519) 824-4120-2212
C. C. Mack	W-2452 . . . 7886
D. Farquhar	W-2454 . . . 7886
D. P. Dodge, Spvr.	W-4422 . . . 7887
R. M. Biette	W-4422 . . . 7887
J. T. Allin	W-4422 . . . 7887
G. A. Goodchild.	W-4422 . . . 7887
G. E. Gale.	W-4422 . . . 7887
G. L. Beggs	W-2344 . . . 7887

Box 50, Maple, Ontario L0J 1E0. Telephone (416) 832-2761.

Fisheries Research Section
 Age/Growth Studies & Envir. Stress
 Brook Trout Studies
 Community Dynamics
 Limnology
 Stocks Assessment & Genetics
 Harkness Memorial Lab (winter)
 Harkness Memorial Lab (summer)
 Systems Ecology

A. H. Lawrie, Spvr.	Ext. 251
J. Casselman	251
J. H. Fraser	251
D. O. Evans	251
A. M. McCombie	251
P. Ihssen	251
J. A. MacLean	251
J. A. MacLean	(705) 637-2103
B. Shuter	251

RESEARCH STATIONS

Fisheries Research Section
 Box 5000, Thunder Bay, Ont. P7C 5G6
 Sault Ste. Marie Research Station
 875 Queen St. E., S.S. Marie, Ont. P6A 2B3
 South Baymouth Fisheries Laboratory
 R.R. 1, Tehkumah, Ont. P0P 2C0
 Wheatley Fisheries Research Station
 R.R. 2, Wheatley, Ont. N0P 2P0
 Glenora Fisheries Research Station
 R.R. 4, Picton, Ont. K0K 2T0
 Harkness Lab (Algonquin Park)
 Box 110, Whitney, Ont. K0J 2M0

R. A. Ryder	(807) 683-6232
P. J. Colby	475-1635
W. H. Kwain	(705) 942-1411
B. Henderson	(705) 859-3137
J. A. Reckahn	3137
S. J. Nepszy	(519) 825-4171
J. H. Leach	4171
W. J. Christie	(613) 476-2400
D. A. Hurley	2400
Dr. J. A. MacLean	(705) 637-2103

FISH PLANTINGS — Numbers in 000s of Fish (F) and Eggs (E)
Stocked from Ontario Fish Culture Stations

Species		1977	1978	1979	1980	1981
Bass, Largemouth	E	36	.....	.....	.....	.....
	F	77	112	.....	.....	.....
Bass, Smallmouth	E	59	.....	.....	.....	.....
	F	184	185	79	65	160
Muskellunge.	E	.....	.....	.....	.....	.....
	F	949	1,271	1,490	1,120	791
Salmon, Chinook	E	.....	.....	.....	.....	.....
	F	.....	393	147	18	12
Salmon, Coho.	E	.....	.....	.....	.....	.....
	F	209	201	286	418	224
Splake.	E	.....	377	.....	76	.....
	F	952	185	800	798	684
Trout, Aurora	E	.....	.....	.....	.....	.....
	F	.....	38	21	17	30
Trout, Brook	E	.....	380	18	.....	860
	F	1,854	1,078	682	1,260	1,459
Trout, Lake	E	120	120	6	5	.....
	F	2,088	1,536	1,478	1,928	2,636
Trout, Rainbow.	E	350	.....	.....	.....	.....
	F	1,023	1,057	992	1,347	395
Walleye.	E	7,850	.....	13,450	.....	.....
	F	10	8	10	472	29
Total		15,763	6,946	19,461	7,523	7,250

COMMERCIAL FISHING LICENCES

Year	Food-Fish Harvesting	Bait-Fish Harvesting	Bait-Fish Dealers	Bait-Fish Preservers	Total
1977	1,056	1,605	1,731	98	4,490
1978	1,048	1,679	1,832	99	4,658
1979	1,093	1,549	1,791	114	4,547
1980	1,029	1,728	1,858	124	4,739
1981	1,047	1,712	1,861	149	4,762

ANGLING LICENCES

Year	Number Sold to Non-Residents
1977.	630,120
1978.	654,672
1979.	673,925
1980.	628,988
1981.	673,334

FISH STOCKING from Ontario Provincial Fish Culture Stations
For the fiscal year ending March 31, 1982

(E — Eggs)

Station	Species	Quantity	Weight (lbs)	Weight (kg)
Chatsworth.....	Lake Trout.....	39,146	2,234	1,057
	Splake.....	592,593	67,736	32,107
Deer Lake	Rainbow Trout.....	27,929	6,501	3,081
	Lake Trout.....	191,872	3,301	1,565
	Muskellunge.....	791,370	252	119
Dorion.....	Brook Trout.....	860,000E	....	....
		284,032	9,163	4,343
	Lake Trout.....	1,242,233	39,193	18,577
	Splake.....	1,440	2,315	1,097
Hill Lake	Aurora Trout.....	30,000	1,247	566
	Brook Trout.....	326,100	13,555	6,154
	Lake Trout.....	105,250	7,535	3,270
Normandale	Rainbow Trout.....	131,659	23,596	11,185
North Bay	Brook Trout.....	141,287	2,707	1,283
	Lake Trout.....	68,919	2,769	1,313
Pembroke	Brook Trout.....	148,420	3,326	1,576
	Lake Trout.....	223,560	6,160	2,920
Ringwood	Coho Salmon.....	224,123	8,309	3,938
	Chinook Salmon.....	11,997	62	29
Sandfield	Brook Trout.....	78,975	6,508	3,085
	Lake Trout.....	58,892	1,754	831
	Splake.....	89,829	3,902	1,850
	Bass Smallmouth.....	160,008	795	377
Skeleton Lake....	Rainbow Trout.....	136,835	36,074	17,099
	Brook Trout.....	200,000	8,876	4,207
	Lake Trout.....	48,600	1,274	604
Tarentorus	Rainbow Trout.....	74,170	7,690	3,645
	Brook Trout.....	100,173	3,342	1,584
	Lake Trout.....	388,915	9,743	4,618
White Lake	Rainbow Trout.....	24,800	4,583	2,172
	Brook Trout.....	132,900	12,246	5,805
	Lake Trout.....	200,380	4,660	2,209
	Walleye.....	28,780	128	61
Westport.....	Brook Trout.....	47,048	9,579	4,540
	Lake Trout.....	68,079	3,938	1,867

EMPLOYMENT AND INVESTMENT IN COMMERCIAL FISHERY — 1981

Classification		Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron
MEN EMPLOYED	Number	275	739	18	131
FISHING BOATS					
12.2 m and over	Number	2	142	—	27
(40' and over)	kg	25,452	3,930,516	—	662,661
	(Tons)	28	4,324	—	729
	Value \$	60,000	17,582,899	—	2,473,358
6.1 m to 11.9 m	Number	7	40	8	10
(20' to 39')	Value \$	878,840	637,250	63,000	163,500
Under 6.1 m	Number	182	52	7	6
(under 20')	Value \$	236,692	73,045	11,000	4,350
FISHING GEAR					
Gill Nets	Metres	1,184,713	7,469,009	—	1,223,060
	(Yards)	1,303,315	8,216,731	—	1,345,500
	Value \$	655,407	5,321,245	—	1,073,622
Pound Nets	Number	—	31	75	—
	Value \$	—	73,000	100,000	—
Trap Nets	Number	79	190	129	118
	Value \$	92,650	456,000	92,000	230,941
Hoop Nets	Number	815	176	30	3
	Value \$	272,575	72,400	9,000	3,600
Seine Nets	Metres	2,502	3,030	1,454	—
	(Yards)	2,752	3,333	1,600	—
	Value	21,200	30,100	5,900	—
Night Lines	Number	41,006	11,137	5,400	—
	Value \$	25,800	8,675	3,130	—
Dip Nets	Number	16	7	—	—
	Value \$	160	106	—	—
Trawl Nets	Number	—	282	—	4
	Value \$	—	523,050	—	10,000
Trammel Nets	Metres	—	—	—	—
	(Yards)	—	—	—	—
	Value \$	—	—	—	—
SHORE INSTALLATIONS					
Freezers & Icehouses	Number	22	30	5	31
	Value \$	200,950	2,287,539	56,000	426,850
Piers & Wharves	Number	33	46	7	10
	Value \$	110,650	482,400	27,500	106,050
Net Sheds	Number	86	127	11	31
	Value \$	271,879	1,811,382	99,000	908,000
Miscellaneous	Value \$	12,950	8,195	—	—
NEW CAPITAL INVESTMENT					
Engines	Value \$	57,520	294,350	—	61,705
Hulls	Value \$	262,840	1,061,500	—	220,212
Fishing Gear	Value \$	176,126	1,045,535	3,188	253,655
Wheelhouse Eqmnt	Value \$	18,871	329,156	—	45,819
Other Equipment	Value \$	975	5,895	—	6,000
TOTAL NEW CAPITAL	\$	516,332	\$ 2,736,436	3,188	587,391
TOTAL INVESTMENT	\$	3,356,085	\$ 32,103,722	\$ 469,718	\$ 5,987,662

Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
96	59	187	466	72	2,043
20	14	21	11	—	237
259,065	214,524	409,959	199,071	—	5,701,248
285	236	451	219	—	6,272
876,000	503,358	1,482,100	430,000	—	23,407,715
24	10	39	78	5	221
214,000	27,800	529,647	378,922	20,000	2,912,959
43	20	72	239	43	664
38,600	21,700	102,750	356,648	49,733	894,518
792,466	319,786	802,947	782,436	41,178	12,615,595
871,800	351,800	883,330	860,766	45,300	13,878,542
564,175	208,110	591,013	337,753	51,725	8,803,050
11	17	8	18	—	160
10,900	28,500	12,000	13,000	—	237,400
9	16	12	121	15	689
13,000	22,300	18,200	130,436	13,300	1,068,827
1	—	2	79	324	1,430
800	—	2,000	20,150	92,350	472,875
—	—	—	—	711	7,697
—	—	—	—	782	8,467
—	—	—	—	3,350	60,550
—	—	—	350	4,100	61,993
—	—	—	400	1,585	39,590
3	3	3	45	3	80
26	80	45	890	30	1,337
—	—	22	1	—	309
—	—	31,800	800	—	565,650
—	—	—	—	1,454	1,454
—	—	—	—	1,600	1,600
—	—	—	—	2,900	2,900
30	18	45	95	15	291
123,000	227,200	1,677,625	562,053	9,700	5,570,917
25	12	42	93	7	275
50,850	48,158	128,650	166,578	17,600	1,138,436
36	20	63	86	16	476
169,850	114,800	385,600	152,260	38,900	3,951,671
—	—	—	79,375	—	100,520
15,674	25,670	80,950	97,103	14,725	647,697
36,250	1,500	691,820	120,570	11,195	2,405,887
34,966	91,282	136,384	79,044	18,660	1,838,840
8,845	17,944	93,874	10,542	—	525,051
—	—	3,527	1,245	12,000	29,642
\$ 95,735	\$ 136,396	\$ 1,006,555	\$ 308,504	\$ 56,580	\$ 5,447,117
\$2,156,936	\$1,338,402	\$5,967,985	\$2,937,769	\$357,753	\$54,676,032

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest — January to December 1981. (Shown in kilograms and dollar value)

Species	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
Bowfin	27	16,936	2,653	—	2
Bullhead	139,890	30,453	826	38	944
Burbot (Ling)	—	1	—	150	4,655
Carp	73,002	14,673	34,510	13,833	1,951
Catfish	14,049	45,465	21,318	28,598	342
Chub (Deepwater Cisco)	—	2	—	219,149	56,678
Crappie	12,523	1,677	—	—	—
Eel	109,098	108	—	—	—
Lake Herring	2,420	4	—	3,169	12,448
Lake Trout	46	1,771	—	26,593	768
Lake Whitefish	762	10,659	—	593,931	105,017
Freshwater Drum	412	212,470	10,764	32,323	—
Northern Pike	16,305	13,614	1,231	120	3,555
Pacific Salmon	25	14,824	—	7,881	488
Rock Bass	8,785	14,093	795	159	115
Round Whitefish.	—	—	—	4,208	8,489
Sauger	—	—	—	—	243
Shad	309	—	23	2,972	—
Smelt	33,807	13,790,345	—	*77,207	—
Splake	—	9	—	—	55,035
Sturgeon	301	454	—	1,943	315
Sucker (Mullet)	4,655	14,923	11,365	49,266	27,926
Sunfish	59,721	32,442	—	—	—
White Bass	2,420	881,073	5,126	5,940	5
White Perch.	44,746	—	—	—	—
Yellow Perch	562,775	3,795,402	971	246,499	49,058
Yellow Pickerel	1,450	955,655	—	123,922	10,991
Animal Food	75,542	486,585	3,201	22,823	7,410
Total Landings (Kg)	1,163,070	20,333,638	92,783	1,460,724	346,435
Total Value (\$)	\$1,929,556	\$20,261,102	\$53,323	\$3,254,913	\$669,111

*Smelt taken on Experimental Trawl Permit

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest — January to December 1981. (Shown in kilograms and dollar value)

North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings (Kg)	Total Value (\$)
—	—	—	—	19,618	4,377
—	—	6,072	55,613	233,836	214,610
1,793	4,491	169,418	994	181,502	8,321
1,611	—	—	68,836	208,416	71,141
64	—	—	6,959	116,795	129,267
181	92,168	25,755	—	393,933	659,803
—	—	—	6,583	20,783	31,692
—	—	—	2,580	111,786	259,916
4,367	1,327,191	106,238	—	1,455,837	1,227,505
2,619	176,387	18,473	—	226,657	512,543
120,104	172,506	745,272	—	1,748,251	3,085,563
—	—	191	763	256,923	46,517
12,678	2,543	246,145	14	296,205	357,955
9,288	5,864	—	36	38,406	74,346
199	—	17,552	1,698	43,396	70,967
1,901	42,432	—	—	57,030	53,399
—	4	19,767	—	20,014	28,742
—	—	—	—	3,304	1,010
—	42,319	—	—	13,943,678	3,323,354
1,742	—	—	—	56,786	141,473
3,134	174	10,601	3,475	20,397	125,948
25,676	110,402	357,790	4,223	606,226	173,842
—	—	—	33,791	125,954	107,474
50	—	1,232	96	895,942	1,330,439
—	—	—	2,688	47,434	30,579
51,509	61,318	1,725	14,562	4,783,819	14,445,865
20,232	298	363,092	40	1,475,680	5,228,464
56,722	22,182	64,839	30,493	769,797	21,847
313,870	2,060,279	2,154,162	233,444	28,158,405	
\$525,036	\$2,245,797	\$2,641,250	\$185,871		\$31,766,959

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest — January to December 1981. (Shown in pounds and dollar value)

Species	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
Bowfin	60	37,221	5,830	—	5
Bullhead	307,450	66,929	1,816	84	2,075
Burbot (Ling)	—	2	—	330	10,231
Carp	160,444	32,248	75,846	30,403	4,287
Catfish	30,876	99,922	46,853	62,852	751
Chub (Deepwater Cisco)	—	5	—	481,646	124,567
Crappie	27,523	3,686	—	—	—
Eel	239,776	237	—	—	—
Lake Herring	5,318	8	—	6,964	27,359
Lake Trout	100	3,893	—	58,446	1,687
Lake Whitefish	1,695	23,427	—	1,305,342	230,807
Freshwater Drum	906	466,967	23,657	71,039	—
Northern Pike	35,835	29,920	2,705	263	7,812
Pacific Salmon	55	32,581	—	17,321	1,072
Rock Bass	19,308	30,974	1,747	350	253
Round Whitefish.	—	—	—	9,248	18,657
Sauger	—	—	—	—	535
Shad	678	—	50	6,531	—
Smelt	74,301	30,308,451	—	*169,685	—
Splake	—	20	—	—	120,956
Sturgeon	661	998	—	4,270	693
Sucker (Mullet)	10,230	32,797	24,979	108,276	61,375
Sunfish	131,255	71,301	—	—	—
White Bass	5,319	1,936,423	11,265	13,054	10
White Perch.	98,343	—	—	—	—
Yellow Perch	1,236,867	8,341,542	2,135	541,757	107,819
Yellow Pickerel	3,187	2,100,341	—	272,356	24,157
Animal Food	166,026	1,069,417	7,035	50,160	16,286
Total Landings (Kg)	2,556,213	44,689,310	203,918	3,210,377	761,394
Total Value (\$)	\$1,929,556	\$20,261,102	\$53,323	\$3,254,913	\$669,111

*Smelt taken on Experimental Trawl Permit

**Rock Bass & Crappie Combined

***Average prices used for value

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest — January to December 1981. (Shown in pounds and dollar value)

North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings (Lbs.)	Total Value (\$)
—	—	—	—	43,116	4,377
—	—	13,344	122,227	513,925	214,610
3,941	9,871	372,347	2,184	398,906	8,321
3,540	—	—	151,288	458,056	71,141
140	—	—	15,294	256,688	129,267
398	202,567	56,605	—	865,788	659,803
—	—	—	14,467	45,676	31,692
—	—	—	5,670	245,683	259,916
9,597	2,916,904	233,489	—	3,199,639	1,227,505
5,755	387,664	40,601	—	498,146	512,543
263,965	379,133	1,637,960	—	3,842,329	3,085,563
—	—	420	1,676	564,665	46,517
27,864	5,589	540,979	30	650,997	357,955
20,414	12,887	—	80	84,410	74,346
438	—	**38,575	3,732	95,377	70,967
4,178	93,258	—	—	125,341	53,399
—	9	43,444	—	43,988	28,742
—	—	—	—	7,259	1,010
—	93,008	—	—	30,645,445	3,323,354
3,829	—	—	—	124,805	141,473
6,887	383	23,298	7,638	44,828	125,948
56,430	242,642	786,352	9,282	1,332,363	173,842
—	—	—	74,265	276,821	107,474
109	—	2,707	210	1,969,097	1,330,439
—	—	—	5,908	104,251	30,579
113,206	134,765	3,791	32,004	10,513,886	14,445,865
44,465	655	798,005	88	3,243,254	5,228,464
124,664	48,751	142,503	67,018	1,691,860	21,847
689,820	4,528,086	4,734,420	513,061	61,886,599	
\$526,036	\$2,245,797	\$2,641,250	\$185,871		\$31,766,959

ONTARIO COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Species	1977	1978	1979	1980	1981	Value 1981
Bowfin	18	16	14	9	20	\$ 4
Bullhead	281	222	236	241	234	215
Burbot (Ling)	208	173	129	108	182	8
Carp	216	113	180	121	208	71
Catfish	65	86	96	85	117	129
Chub (Deepwater Cisco)	602	558	498	446	394	660
Pacific Salmon	2	3	21	17	38	74
Eel	189	232	226	168	112	260
Freshwater Drum	184	166	164	179	257	47
Goldeye . . . . .	.....	.....	.....	.....	.....	.....
Lake Herring (Cisco)	863	929	990	1,464	1,456	1,228
Lake Trout	112	165	165	278	227	513
Lake Whitefish	1,445	1,692	1,289	1,681	1,748	3,086
Northern Pike	312	344	312	267	296	360
Rock Bass and Crappie	86	80	99	75	64	103
Round Whitefish	40	40	46	75	57	53
Sauger	9	13	16	17	20	29
Smelt	10,593	12,300	10,892	11,336	13,944	3,323
Splake	13	12	9	39	57	141
Sturgeon	17	13	15	21	20	126
Sucker (Mullet)	639	536	630	563	606	173
Sunfish	128	106	127	118	126	107
White Bass	454	756	763	904	896	1,330
White Perch	198	229	49	57	47	31
Yellow Perch	4,367	4,505	5,873	6,236	4,784	14,446
Yellow Pickerel	1,134	846	1,046	1,343	1,476	5,228
Animal Food	1,168	1,076	1,010	637	772	22
Total Landings	23,343	25,211	24,895	26,485	28,158	
Total Landed Value	\$14,555	\$17,161	\$25,874	\$23,644		\$31,767

ONTARIO COMMERCIAL FISH HARVEST — by Species in 000s lbs. and \$000s

Species	1977	1978	1979	1980	1981	Value 1981
Bowfin	41	37	31	20	43	\$ 4
Bullhead.....	625	494	525	535	514	215
Burbot (Ling)	462	384	286	239	399	8
Carp	480	251	399	268	458	71
Catfish	144	192	214	189	257	129
Chub (Deepwater Cisco)	1,338	1,240	1,106	992	866	660
Pacific Salmon.....	5	6	48	36	84	74
Crappie.....	26	48	90	60	46	32
Eel.....	420	514	502	373	246	260
Freshwater Drum.....	408	369	365	397	565	47
Goldeye	2	....	....	....	....	....
Lake Herring (Cisco)	1,917	2,065	2,200	3,254	3,200	1,228
Lake Trout	249	367	367	618	498	513
Lake Whitefish.....	3,211	3,762	2,864	3,737	3,842	3,086
Northern Pike.....	693	764	692	592	651	360
Rock Bass	165	130	130	109	95	71
Round Whitefish.....	88	89	101	167	125	53
Sauger	21	29	35	37	44	29
Smelt	23,540	27,332	24,204	25,191	30,645	3,323
Splake.....	29	27	20	87	125	141
Sturgeon.....	38	30	32	48	45	126
Sucker (Mullet).....	1,420	1,191	1,401	1,260	1,332	173
Sunfish.....	284	235	284	263	277	107
White Bass.....	1,008	1,680	1,695	2,009	1,969	1,330
White Perch.....	439	508	109	127	104	31
Yellow Perch	9,705	10,012	13,053	13,858	10,514	14,446
Yellow Pickerel	2,520	1,880	2,324	2,984	3,243	5,228
Animal Food.....	2,595	2,386	2,247	1,415	1,699	22
Total Landings.....	51,873	56,024	55,324	58,865	61,886	
Total Landed Value.....	\$14,555	\$17,161	\$25,874	\$23,644		\$31,767

ONTARIO COMMERCIAL FISH HARVEST — by Waters in 000s kg and \$000s

Year	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay	North Channel	Lake Superior	Northern Inland	Southern Inland	Total	Total \$
1977	1,107	16,134	.....	1,067	456	226	1,738	2,446	169	23,343	14,555
1978	1,112	18,072	.....	1,179	349	172	1,834	2,352	140	25,210	17,161
1979	878	18,473	.....	858	331	210	1,621	2,217	307	24,895	25,874
1980	891	19,490	37	1,083	361	158	2,151	2,080	234	26,485	23,644
1981	1,163	20,334	93	1,461	346	314	2,060	2,154	233	28,158	31,767

by Waters in 000s lbs and \$000s

1977	2,461	35,854	.....	2,371	1,013	502	3,863	5,436	373	51,873	14,555
1978	2,471	40,160	.....	2,620	775	385	4,075	5,226	312	56,024	17,161
1979	1,950	41,051	.....	1,908	736	467	3,601	4,928	683	55,324	25,874
1980	1,981	43,310	82	2,408	802	351	4,780	4,631	520	58,865	23,644
1981	2,556	44,689	204	3,210	761	690	4,528	4,735	513	61,886	31,767

LAKE ONTARIO COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Eel	Lake Herring	Smelt	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total \$
1977	183	107	186	5	23	77	191	263	72	1,107	761
1978	164	9	229	6	27	67	226	318	66	1,112	1,138
1979	163	4	222	13	26	70	46	253	81	878	1,478
1980	176	.....	164	5	22	72	55	265	132	891	1,147
1981	154	73	109	2	34	60	48	563	120	1,163	1,930

by Species in 000s lbs and \$000s

LAKE ERIE COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Smelt	White Bass	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1977	69	42	180	10,347	444	3,830	238	984	16,134	7,737
1978	64	29	158	11,974	742	3,963	265	877	18,072	9,884
1979	54	15	122	10,831	756	5,423	538	734	18,473	17,592
1980	56	10	151	11,296	888	5,674	800	615	19,490	14,024
1981	76	15	212	13,790	881	3,795	956	609	20,334	20,261

by Species in 000s lbs and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Smelt	White Bass	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1977	153	93	400	22,994	986	8,510	529	2,189	35,854	7,737
1978	142	64	351	26,609	1,649	8,806	589	1,950	40,160	9,884
1979	120	32	272	24,068	1,679	12,051	1,195	1,634	41,051	17,592
1980	125	23	336	25,103	1,973	12,609	1,778	1,363	43,310	14,024
1981	167	32	467	30,308	1,936	8,342	2,100	1,337	44,689	20,261

LAKE HURON COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1977	9	39	....	560	5	41	104	123	186	1,067	1,655
1978	15	70	4	641	9	49	124	77	190	1,179	1,960
1979	17	67	3	375	5	30	49	95	217	858	1,730
1980	15	101	3	524	6	18	201	124	91	1,083	2,369
1981	14	219	3	594	4	49	246	124	208	1,461	3,255

by Species in 000s lbs and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1977	19	86	1	1,244	12	91	231	274	413	2,371	1,655
1978	33	156	8	1,425	21	108	275	171	423	2,620	1,960
1979	38	149	6	833	12	67	108	210	485	1,908	1,730
1980	33	225	6	1,164	12	41	447	275	205	2,408	2,369
1981	30	482	7	1,305	9	108	542	272	455	3,210	3,255

GEORGIAN BAY COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1977	8	172	18	72	15	32	64	52	23	456	685
1978	6	151	16	71	13	19	35	23	15	349	520
1979	4	122	21	74	19	13	45	17	16	331	641
1980	7	77	20	88	15	41	36	11	66	361	505
1981	2	57	12	105	8	28	49	11	74	346	669
<i>by Species in 000s lbs and \$000s</i>											
1977	17	382	41	160	33	71	142	115	52	1,013	685
1978	14	335	36	159	28	43	77	51	32	775	520
1979	8	272	46	166	43	28	99	37	37	736	641
1980	16	171	44	196	33	91	81	25	145	802	505
1981	4	125	27	231	19	61	108	24	162	761	669

NORTH CHANNEL COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Smelt	Lake Whitefish	Northern Pike	Round Whitefish	Sturgeon	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1977	85	11	4	2	29	27	9	59	226	211
1978	88	5	3	2	23	13	6	32	172	196
1979	63	9	3	2	36	29	20	48	210	280
1980	73	6	1	4	34	7	13	20	158	279
1981	120	13	2	3	26	52	20	78	314	526
<i>by Species in 000s lbs and \$000s</i>											
1977	189	24	8	4	65	59	19	134	502	211
1978	1	197	11	6	4	52	29	14	71	385	196
1979	139	21	7	4	80	64	43	109	467	280
1980	163	13	3	9	77	16	29	41	351	279
1981	264	28	4	7	56	113	45	173	690	526

LAKE SUPERIOR COMMERCIAL FISH HARVEST — by Species n 000s kg and \$000s

Year	Chub	Lake Herring	Lake Trout	Lake Whitefish	Smelt	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1977	344	793	91	109	216	64	66	2	53	1,738	1,172
1978	294	854	128	151	294	42	41	.....	30	1,834	1,307
1979	271	887	111	159	34	75	47	.....	37	1,621	1,723
1980	240	1,282	212	225	17	77	38	.....	60	2,151	2,606
1981	91	1,327	176	173	42	110	61	.....	80	2,060	2,246
by Species in 000s lbs and \$000s											
1977	765	1,762	203	243	479	142	146	4	119	3,863	1,172
1978	652	1,897	285	334	654	92	90	1	70	4,075	1,308
1979	601	1,972	247	352	76	166	105	.....	82	3,601	1,723
1980	533	2,848	471	501	37	172	84	1	133	4,780	2,606
1981	203	2,917	388	379	93	243	135	1	169	4,528	2,246

NORTHERN INLAND WATERS COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Burbot	Chub	Lake Herring	Lake Trout	Lake Whitefish	Northern Pike	Sucker (Mullet)	Yellow Pickerel	Other Species	Total	Total \$
1977	176	45	41	16	612	256	453	709	138	2,446	2,217
1978	164	43	46	20	737	298	385	467	192	2,352	2,053
1979	122	38	63	34	616	266	446	353	279	2,217	2,228
1980	91	27	154	32	765	226	337	337	111	2,080	2,533
1981	169	26	106	18	745	246	358	363	123	2,154	2,641
by Species in 000s lbs and \$000s											
1977	392	101	91	36	1,361	568	1,006	1,575	306	5,436	2,217
1978	364	95	103	45	1,638	663	856	1,038	424	5,226	2,053
1979	270	84	139	75	1,370	590	992	784	624	4,928	2,228
1980	202	61	342	71	1,701	502	757	749	246	4,631	2,533
1981	372	57	233	41	1,638	541	786	798	268	4,734	2,641

SOUTHERN INLAND WATERS COMMERCIAL FISH HARVEST — by Species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Lake Whitefish	Rock Bass & Crappie	Sucker (Mullet)	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total \$
1977	58	47	.....	5	6	18	6	11	16	167	117
1978	41	58	.....	4	1	15	3	6	12	140	103
1979	58	138	.....	11	9	31	3	18	39	307	203
1980	57	71	.....	4	15	29	2	11	45	234	157
1981	63	69	.....	8	4	34	3	15	37	233	186
by Species in 000s lbs and \$000s											
1977	129	104	.....	11	14	40	14	25	36	373	117
1978	92	130	.....	9	2	34	6	13	26	312	103
1979	129	306	.....	24	19	69	7	41	88	683	203
1980	126	158	.....	10	34	64	5	24	99	520	157
1981	138	151	.....	18	9	74	6	32	428	513	186

EMPLOYMENT AND INVESTMENT IN ONTARIO COMMERCIAL FISHERY

Year	Boats 40' and Over	Boats Under 40'	Gill Nets m ^{000s}	Pound yds 000s	Trap Nets	Hoop Nets	Seine m 00s	Freezers and Ice Houses yds 00s	Wharves and Piers	Net Sheds	New Investment \$000s	Total Value \$000s
1977	2,213	209	946	10,191	11,145	120	504	1,532	69	75	303	278
1978	2,231	206	1,017	11,145	12,189	141	473	2,459	73	80	329	262
1979	1,997	212	913	10,869	11,847	80	476	1,497	62	67	309	263
1980	1,964	213	837	12,068	13,261	172	556	1,630	75	83	317	250
1981	2,043	237	885	12,616	13,879	160	689	1,430	77	85	291	275

LANDS AND WATERS GROUP

Room W-6626, Main Office. Telephone (416) 965-6045.

Executive Co-ordinator	H. A. Clarke	W-6626... 6045
Secretary	Ms. H. Cobden	W-6623... 1075
Administration.....	J. Botterill	W-6613... 2724

LAND MANAGEMENT BRANCH

Room W-6450, Main Office. Telephone (416) 965-1316.

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Secretary	Mrs. B. Bourne	W-6450... 1316
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Public Lands Management.....	L. Fleguel.....	W-6448... 4507
Disposition.....	W. P. Small	W-6445... 2743
Land Appraisals Officer	J. Hogan	W-6628... 2728
Property Management Officer.....	L. Hall.....	W-6628... 2738
Land Management Planning.....	N. C. Gordon	W-6440... 2742
Mining Lands Section	J. C. Smith, Spvr.....	W-6451... 1380
Mining Lands Administrator.....	F. W. Matthews	W-6452... 6918
Titles Section.....	J.G. Sherman, Acting Spvr.....	W-6621... 1319
Document Officer	C. D. Egerton	W-6502... 1319
Acreage Tax Administrator.....	Mrs. D. Holland	W-6621... 1319
Records Officer	R. E. Dixon	W-6501... 1319
Land Records Manager.....	V. Prasad (Acting)	W-6501... 1319
Resource Access Section.....	J. M. Small, Spvr.....	W-5606... 5735

LANDS ACQUIRED BY CROWN — Areas in hectares and acres in years ending March 31

Year	Provincial Tax Forfeitures ha	Provincial Tax Forfeitures Ac	Cancellation of Sales ha	Cancellation of Sales Ac	Purchased or Otherwise Acquired ha	Purchased or Otherwise Acquired Ac	Total ha	Total Ac	Average Tax Forfeitures ha	Average Tax Forfeitures Ac
1978	1	2	3	8	4,995	12,344	4,999	12,354	10,147	25,073
1979	...	...	0.4	1	2,075	5,128	2,076	5,129	22,663	56,000
1980	0.4	1	...	...	2,480	6,128	1	1	15,783	39,000
1981	1.20	3	0.16	0.42	703	1,737	1.36	3.42	3,600	9,000
1982	492	1,215	...	...	722	1,784			6,275	15,500

USE OF ACQUIRED LANDS — Areas in hectares and acres in years ending March 31

Year	Provincial Parks ha	Provincial Parks Ac	Land Management General ha	Land Management General Ac	Sport Fisheries ha	Sport Fisheries Ac	Wildlife Management ha	Wildlife Management Ac	Timber Management ha	Timber Management Ac	Total ha	Total Ac	Interim Property Management ha	Interim Property Management Ac
1978	548	1,353	4.04	10	...	...	111	275	4,332	10,706	4,995	12,344	36,095	89,192
1979	2,028	5,012	79	194	...	...	...	...	3	7	2,110	5,213	34,715	85,782
1980	2,350	5,807	109	270	16	40	...	...	5	12	2,480	6,128	35,008	86,506
1981	549	1,357	...	51	126	3	...	7	100	247	703	1,737	34,692	85,725
1982	588	1,453	32	79	47	117	24	59	31	77	722	1,784	26,633	64,330

PUBLIC LAND — Areas in hectares and acres in years ending March 31

Year	No.	Patents ha	Patents Ac	No.	Leases ha	Leases Ac	No.	Licences of Occupation ha	Licences of Occupation Ac
1978	189	1,070	2,643	311	291	719	165	2,909	7,188
1979	126	523	1,293	63	99	245	79	3,580	8,847
1980	578	1,216	3,005	201	198	488	135	3,407	8,419
1981	890	1,093	2,702	162	276	682	100	3,066	7,576
1982	690	2,385	5,895	211	448	1,107	113	845	2,088

MINING LANDS — Areas in hectares and acres in years ending March 31

Year	No.	Patents		No.	Renewals		Leases	
		ha	Ac		ha	Ac	No.	ha
1978	131	2,337	5,775	92	15,344
1979	137	2,049	5,062	53	3,923
1980	185	5,327	13,163	94	11,185
1981	141	2,302	5,689	60	7,704
1982	77	1,226	3,030	68	6,446
								37,915
								9,695
								27,639
								19,037
								15,928

Year	No.	Surface Rights		No.	Licences of Occupation		Quite Claim Deeds and Regrants	
		ha	Ac		ha	Ac	ha	Ac
1978	1	37	92	5	803,827	1,986,300	119	3,349
1979	1	37	92	2	27,694	69,100	142	3,764
1980	2	90	222	1	16	39	297	7,538
1981	...	...	...	5	147,191	363,722	38	624
1982	...	...	...	3	366,705	906,115	49	1,157
								8,275
								9,300
								18,626
								1,543
								2,860

PROSPECTING ACTIVITIES — in years ending March 31

Year	Mining Claims		In Good Standing	Assessment Work (Days)	Quarry Permits Issued	Miners Licences Renewed	
	Recorded	Cancelled				Issued	Renewed
1978	14,747	20,786	41,548	644,811	1,087	943	2,000
1979	13,041	16,444	37,669	752,155	1,178	991	1,723
1980	16,875	10,952	36,092	437,619	1,301	1,347	1,854
1981	36,535	11,279	72,809	972,469	1,188	2,130	2,660
1982	26,075	17,709	76,125	1,565,197	1,520	1,871	2,796

MNR REGULAR ROADS PROGRAM*

Region	No. of Kms Con./Recon.	No. of Bridges Constructed	Expenditures (\$000's)	No. of Kms Maintained	Expenditures (\$000's)
NORTHERN ONTARIO					
Northwestern	15.0	—	569.6	921.0	457.2
North Central.	134.4	5	613.6	1,330.0	451.2
Northern	110.3	1	578.0	1,684.2	737.1
Northeastern.	42.5	2	713.8	2,373.9	547.6
Sub Totals	302.2	8	\$2,475.0	6,309.1	\$2,193.1
SOUTHERN ONTARIO					
Algonquin	2.0	—	70.1	1,114.4	532.8
Eastern.	41.3	2	99.4	598.8	158.9
Central.	8.5	—	20.4	484.9	63.2
Southwestern	—	—	—	51.4	30.0
Sub Totals	51.8	2	\$ 189.9	2,249.5	\$ 784.9
PROVINCIAL TOTALS	354.0	10	\$2,664.9	8,558.6	\$2,978.0

* Program includes: Recreational Access, Forest Access, Cottage Acess, Ministry Service, Public Transport and Residential Subdivision Roads.

1981/82 NORTHERN ONTARIO RESOURCES TRANSPORTATION COMMITTEE — DIRECT PROGRAM (MNR)

Region	No. of Kms Con./Recon.	No. of Bridges Constructed	Expenditures (\$000's)	No. of Kms Maintained	Expenditures (\$000's)	No. of Kms Winter Road Maint.	Expenditures (\$000's)
Northwestern	153.3	1	1,557.9	181.0	188.2	270.9	231.3
North Central	2.0	—	64.0	45.0	30.7	57.0	39.9
Northern	13.3	—	787.0	—	—	285.0	60.7
Northeastern	8.0	—	25.0	22.4	15.0	—	—
Total	176.6	1	\$2,433.9	248.4	233.9	612.9	331.9

1981/82 NORTHERN ONTARIO RESOURCES TRANSPORTATION COMMITTEE — INDIRECT PROGRAM (COMPANY)

Northwestern	10.5	130.0
North Central	11.1	152.5
Northern	—	—
Northeastern	—	—
TOTAL	21.6	\$282.5

1980-82 FOREST MANAGEMENT SUBSIDIARY AGREEMENT PROGRAM*

CROWN PROJECTS

Region	No. of Kms Constructed	No. of Bridges	Expenditures (\$000's)
Northwestern	19.5	—	2,013.4
North Central	31.0	2	1,383.8
Northern	25.1	1	2,210.6
Northeastern	5.0	—	456.7
TOTAL	80.6	3	\$6,064.5

COMPANY PROJECTS

Region	No. of Kms Constructed	No. of Bridges	Expenditures (\$000's)
Northwestern	18.6	—	449.0
North Central	55.1	2	1,711.8
Northern	12.8	1	675.0
Northeastern	17.0	2	1,054.4
TOTAL	103.4	5	\$3,890.2
TOTAL PROGRAM	184.1	8	\$9,954.7

*F.M.S.A. Program is co-funded by the Federal and Provincial Governments.

1981-82 FOREST MANAGEMENT AGREEMENT PROGRAM*

(Partially Funded by B.I.L.D.)

Region	No. of Kms Con./Recon.	Expenditures (\$000's)	No. of Kms Maintained	Expenditures (\$000's)
Northwestern	54.1	559.7	27.8	10.1
North Central.	156.5	2,310.3	81.1	28.1
Northern	272.4	4,664.8	182.2	61.5
Northeastern.	47.8	818.8	13.5	4.9
TOTAL	530.8	\$8,353.6	304.6	\$104.6

* F.M.A. Program is funded in accordance with agreements between MNR and forest companies.

RESOURCE ACCESS PROGRAM SUMMARY MNR ROAD & BRIDGE CONSTRUCTION & MAINTENANCE

Crown	Regular Program	N.O.R.T. Program	F.M.S.A. Program	F.M.A. Program	Totals
Kms of Road Con./Recon.....	354.0	176.6	80.6	—	611.2
Expenditures	\$2,664.9	\$2,433.9	\$6,064.5	3 Bridges	3 Bridges
				—	\$11,163.3
Kms. of Road Maintained.....	8,558.6	248.4	—	—	8,807.0
Expenditures	\$2,978.0	\$233.9	—	—	\$3,211.9
Kms of Winter Road Maintained	—	612.9	—	—	612.9
Expenditures	—	\$331.9	—	—	\$331.9

ROADS & BRIDGES CONSTRUCTED & MAINTAINED BY COMPANIES UNDER AGREEMENT

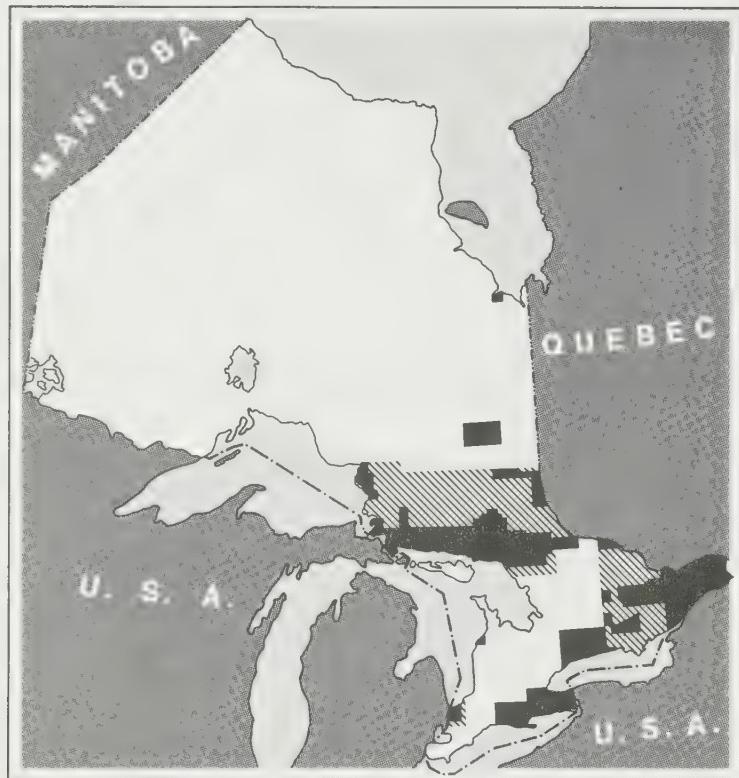
Company	N.O.R.T. Program	F.M.S.A. Program	F.M.A. Program	Totals
Kms of Road Constructed.....	21.6	102.3	530.8	655.2
		5 Bridges	5 Bridges	
Expenditures	\$282.5	\$3,890.2	\$8,353.6	\$12,526.3
Kms of Road Maintained.....	—	—	304.6	304.6
Expenditures	—	—	104.6	104.6

LANDS AND WATERS GROUP

SURVEYS AND MAPPING BRANCH

Room W-6602, Main Office. Telephone (416) 965-6225.

Branch Director	Robert G. Code	W-6602... 6225
Surveying Services, General Manager...	S. B. Panting	W-6604... 4538
Surveys Manager.....	D. E. Norris	W-6643... 2714
Asst. Mgr., Examinations	J. E. Hietala	W-6644... 2714
Asst. Mgr., Technical Service.....	J. A. MacIntosh.....	W-6641... 2714
Survey Records Information.....	D. E. Jeanes.....	W-6645... 7085
Geographical Referencing		
Co-ordinator.....	J. H. Kerr	W-6601... 4538
Mathematical Adjustments, Head.....	Z. Jiwani.....	W-5444... 4538
Mapping Services General Manager	C. T. Osborne	W-2624... 4941
Cartographic Services Manager.....	F. W. Dawson	W-2622... 4743
Drafting Services Manager.....	W. J. Clark	W-6521... 7108
Nomenclature Services Manager.....	M. B. Smart	W-2542... 6515
Basic Mapping Manager.....	B. Jackson.....	W-2623... 1208
Chief Contract Monitor.....	R. Audas	W-2641... 0293
Ontario Centre for Remote Sensing 880 Bay Street, Toronto, Ontario M5S 1Z8		
Associate Director.....	V. Zsilinszky.....	8411
Chief Scientist.....	S. Pala	8411
Senior Scientist.....	A. Boissonneau.....	8411
Senior Scientist.....	A. Jano	8411
Staff Scientist	R. Mussakowski	8411
Staff Scientist	T. Ellis.....	8411
Staff Scientist	J. Watts	8411
Thermography Specialist	I. Ross	8411
Research Officer, Engineering...	V. Singhroy	8411
Senior Remote Sensing		
Technician	J. Narraway	8411
Supervisor of Airborne Program ...	D. Bates	8411
Airborne Program Specialist	B. Fitzpatrick.....	8411
Photo Research Lab Supervisor.....	D. Klimes	8411



MAPPING SERVICES
ONTARIO BASIC MAPPING

1:20 000 , 1:10 000 scales



Completed.



In progress.



To be mapped.

1:2 000 scale

124 Communities completed.
19 Communities in progress.



SURVEYING SERVICES



Area of original
township surveys.



Township boundaries
resurveyed / restored.

8781 kms completed.

LAND AND WATERS GROUP

OFFICE OF INDIAN RESOURCE POLICY

Room W-6625, Main Office. Telephone (416) 965-6045.

Branch Director	E. G. Wilson	W-6625 . . . 6045
Secretary	C. A. Ritchie	W-6623 . . . 6045
Indian Resource Policy Adviser	P. R. Wyatt	W-6627 . . . 6045
Indian Resource Policy Adviser	G. S. McLachlan	W-5647 . . . 1271
Senior Indian Land Claims Researcher	D. T. McNab	W-5644 . . . 1271
Indian Land Claims Researcher	L. G. Ugarenko	W-5643 . . . 1271
Indian Land Claims Researcher	D. J. Bourgeois	W-5642 . . . 1271
Clerk Steno	P. Williams	W-5641 . . . 1271

LANDS AND WATERS GROUP

LAND USE CO-ORDINATION BRANCH

Room W-3440, Main Office. Telephone (416) 965-2899.

Branch Director	R. A. Riley	W-3440... 2899
Land Use Planning Section	M. S. Millar, Spvr.....	W-3440... 2899
Plan Input and Review Specialist.....	J. C. Slot	W-3440... 2899
Environmental Planner	R. D. Laprairie	W-3440... 5344
Policy and Special Projects		
Section	E. M. Cressman, Spvr...	W-3440... 2899
Project Planner	J. R. M. Williams	W-3440... 2899
Policy & Planning Officer	R. P. Milligan	W-3440... 2899
Resource Economist.....	Dr. P. L. M. Warwick	W-3440... 5344

PLANS REVIEWED — in years ending March 31

Year	Specific Development Plans			Official Plans Amendments
	Subdivision	Severance	Other	Zoning By-Laws
1978	1,614	4,558	566	986
1979	1,109	5,320	929	1,166
1980	1,140	6,747	1,519	1,831
1981	646	4,631	533	2,696
1982	764	7,820	1,749	4,264

**PLAN INPUTS AND
SPECIAL LAND USE PROJECTS —** in years ending March 31

Year	Plan Inputs	Special Land Use Projects (ongoing)	Environmental Assessments
1978	181	37	.....
1979	170	35	.....
1980	172	88	109
1981	351	53	157
1982	382	82	101

LANDS AND WATERS GROUP

CONSERVATION AUTHORITIES AND WATER MANAGEMENT BRANCH

Section 6, 5th Floor, Main Office. Telephone (416) 965-6285.

Branch Director	M. R. Garrett	W-5628... 6285
Asst. Director, Policy & Planning.....	J. S. Anderson.....	W-5626... 6285
Spvr. Water & Related Land Mgmt.....	G. S. Sardesai	W-5633... 6275
Spvr. Land Mgmt. & Program Eval.....	R. D. Hunter.....	W-5629... 6285
Policy Analyst	(vacant)	W-5623... 6281
Head, Water Basin Planning.....	R. Milligan	W-5630... 6275
Head, Cons. & Rec. Land Mgmt. Prog....	R. J. Dickie.....	W-5625... 1573
Head, Financial Services	(vacant)	W-5627... 7694
Library.....	Miss A. Perrigo	W-5611... 4481
Spvr. Streamflow Forecast Centre.....	P. N. Grynewski	W-5604... 6292
Flood Emergency Co-ordinator	L. J. Balogh	W-5632... 6277
Spvr. Models & Consultative Serv.....	R. B. Chang	W-5622... 6295
Head, Model Development	J. Y. Ding	W-5634... 6220
Head, Coastal Zone Management	D. L. Strelchuk.....	W-5648... 1271
Head, Consultative Services	R. M. Odell.....	W-5645... 1271
Spvr. Admin. Support Staff.....	Mrs. D. Green	W-5620... 6270
Youth Programs Co-ordinator	Mrs. S. E. Court	W-5635... 1799

**GRANTS TO CONSERVATION AUTHORITIES
UNDER THE CONSERVATION AUTHORITIES ACT —** in years ending March 31

Year	Administration	Water and Related Land Mgmt	Conservation and Recreation Land Mgmt	Lake Ontario Waterfront	Total
1979	\$ 4,357,441	\$ 22,439,889	\$ 3,973,686	\$ 1,559,792	\$ 32,330,808
1980	4,756,983	20,466,353	3,404,736	1,530,000	30,158,072
1981	5,202,220	27,724,128	3,436,411	1,500,342	37,863,102
1982	5,517,581	26,496,443	2,953,315	1,469,780	36,437,119

Detailed statistical data for 1981 is not available. A new format is being developed and it is expected that significant additional 1982 data will be available for the 1983 publication.

AVIATION AND FIRE MANAGEMENT CENTRE

Box 310, Sault Ste. Marie, Ontario P6A 5L8
Telephone (705) 942-1800. Telex 067-77166, 067-77134.

Director	J. F. Goodman	(705) 942-1800
Finance and Administration Supervisor	W. A. Sinclair	1800
Purchasing Officer	E. M. Esson	1800
Fire Management Section	W. H. Forman, Spvr.	1800
Provincial Fire Operations	J.G. Minor, Spvr.	1800
Research & Development	R. J. Drysdale, Spvr.	1800
Fire Management Education Co-ordinator	R. B. Little	1800
Chief Pilot	(vacant)	1800
Maintenance Superintendent	G. Willoughby	1800
Assistant Supt., Maintenance		
Airframe Section	S. J. Denley	1800
Engine Section	P. F. Holder	1800
Quality Control Inspector	D. J. Moffat	1800
Communications Supervisor	J. Scotland	1800
Flight Ops. Officer, Malton Airbase	W. C. Clarke	(416) 678-1172

FOREST FIRE RECORD — Areas in hectares (acres in light face)

Year	Damage	Private Property Damage	Crown	Area Burned Over	Total	Number of Fires	Area per Fire
1917	\$	\$	155,466	1,110	140
					384,164		346
1918	12,210	965	12
					30,172		31
1919	373,186	1,780	210
					922,161		518
1920	145,222	1,287	113
					358,851		279
1921	303,326	1,269	239
					749,534		591
1922	140,099	1,021	151
					346,193		339
1923	857,995	1,343	639
					2,120,148		1,579
1924	55,091	851	69
					146,017		171
1925	76,705	1,149	67
					189,543		165
1926	26,664	9,100	35,764	1,110	32	
		65,888	22,486	88,374		80	
1927	9,216	5,248	14,464	924	16	
		22,772	12,970	35,742		39	
1928	39,026	1,598	40,624	536	76	
		96,436	3,947	100,383		187	
1929	246,353	6,836	253,189	1,550	163	
		608,750	16,893	625,643		404	
1930	144,688	143,371	288,059	1,402	206	
		357,531	354,278	711,809		508	
1931	42,843	13,120	55,963	1,851	30	
		105,866	32,421	138,287		75	
1932	253,558	21,232	274,790	2,073	133	
		626,555	52,466	679,021		328	
1933	131,537	10,086	141,623	1,919	74	
		325,034	24,924	349,958		182	
1934	64,891	15,493	80,384	1,568	51	
		160,348	38,285	198,633		127	
1935	74,090	27,309	101,439	1,309	77	
		183,179	67,483	250,662		191	
1936	466,957	44,741	511,698	2,264	226	
		1,153,876	110,557	1,264,443		558	
1937	81,701	9,251	90,952	1,453	63	
		201,887	22,859	224,746		155	
1938	38,918	17,028	55,946	1,292	43	
		96,168	42,077	138,245		107	
1939	10,558	1,218	11,776	961	12	
		26,089	3,009	29,098		30	
1940	40,869	8,346	49,215	1,014	49	
		100,990	20,624	121,614		120	

FOREST FIRE RECORD — Areas in hectares (acres in light face)

Year	Damage	Private Property Damage	Crown	Private	Area Burned Over Total	Number of Fires	Area per Fire
1941	\$	\$	109,991	159,751	269,742	1,265	213
			271,793	394,754	666,547		527
1942	.....	.....	31,448	14,571	46,019	1,224	38
			77,709	36,007	113,716		93
1943	.....	.....	13,543	7,831	21,374	624	34
			33,465	19,352	52,817		85
1944	.....	.....	29,635	38,713	68,348	1,137	60
			73,228	95,663	168,891		149
1945	.....	.....	7,283	12,348	19,631	966	20
			17,997	30,513	48,510		50
1946	.....	.....	18,072	12,995	31,877	1,739	18
			44,656	32,113	78,769		44
1947	.....	.....	15,416	18,591	34,007	1,393	24
			38,093	45,939	84,032		60
1948	.....	.....	345,917	65,806	411,723	2,036	202
			854,778	162,611	1,017,389		500
1949	.....	.....	16,427	7,880	24,307	1,834	13
			40,593	19,472	60,065		33
1950	55,148	103,682	5,343	9,541	14,884	985	15
			13,203	23,577	36,780		37
1951	389,447	56,389	39,118	1,854	40,972	904	45
			96,662	4,581	101,243		112
1952	29,504	31,347	2,940	2,087	5,027	1,095	4
			7,264	5,157	12,421		11
1953	393,874	81,778	18,016	5,782	23,508	1,520	16
			44,519	14,290	58,089		39
1954	406,241	15,650	14,615	7,518	22,133	881	25
			36,115	18,578	54,693		62
1955	3,591,680	184,940	150,118	10,309	160,427	2,252	71
			370,948	25,475	396,423		176
1956	3,068,152	22,319	89,768	1,777	91,545	1,017	90
			221,822	4,390	226,212		222
1957	463,059	113,751	9,814	9,065	18,879	1,671	11
			24,250	22,401	46,651		28
1958	311,503	97,036	10,337	4,496	14,833	1,558	10
			25,544	11,108	36,652		24
1959	22,041	20,757	1,044	1,093	2,137	1,029	2
			2,580	2,701	5,281		5
1960	438,094	56,442	11,813	888	12,701	956	13
			29,190	2,196	31,386		33
1961	31,989,802	152,639	477,894	1,549	479,433	1,305	367
			1,180,900	3,828	1,184,728		908
1962	74,748	99,165	3,069	2,517	5,586	1,521	4
			7,583	6,221	13,804		9
1963	706,888	39,932	16,467	6,251	22,718	1,885	12
			40,692	15,446	56,138		30

FOREST FIRE RECORD — Areas in hectares (acres in light face)

Year	Damage	Private Property Damage	Crown	Area Burned Over	Total	Number of Fires	Area per Fire
1964	\$ 500,296	\$ 19,792	9,090	2,291	11,381	1,829	6
			22,463	5,661	28,124		15
1965	386,850	254,105	6,068	1,987	8,055	1,218	6
			14,995	4,909	19,904		16
1966	71,521	49,457	3,421	2,413	5,834	1,921	3
			8,453	5,962	14,415		8
1967	1,353,919	87,638	23,768	1,930	25,698	1,465	17
			58,733	4,769	63,502		43
1968	4,174	54,146	1,078	2,751	3,829	1,219	3
			2,665	6,796	9,461		8
1969	134,756	4,623	1,813	669	2,482	901	3
			4,481	1,653	6,134		7
1970	1,323,041	28,815	.....	.....	23,537	1,239	18
			.....	.....	58,160		45
1971	462,064	75,875	.....	.....	14,649	1,790	8
			.....	.....	36,199		20
1972	1,081,876	47,446	.....	.....	32,029	1,604	20
			.....	.....	79,145		49
1973	11,944	121,900	2,417	1,190	3,607	1,111	3
			5,973	2,940	8,913		8
1974	12,063,428	239,384	522,641	1,346	523,987	1,625	323
			1,291,473	3,327	1,294,800		797
1975	683,726	340,414	11,226	5,630	16,856	3,146	5
			27,740	13,911	41,651		13
1976	26,839,738	930,514	536,529	7,578	544,107	3,985	136
			1,325,791	18,726	1,344,517		337
1977	11,190,900	252,565	411,752	4,564	416,316	2,049	203
			1,017,460	11,279	1,028,739		502
1978	165,267	139,386	7,040	483	7,523	940	8
			17,397	1,194	18,591		20
1979	2,310,161	60,032	63,322	393	63,715	1,564	41
			156,472	972	157,444		101
1980	72,094,096	3,254,443	524,893	35,847	560,740	1,779	315
			1,296,031	88,512	1,384,543		778
1981	9,171,418	60,906	173,479	5,994	179,473	1,656	108
			428,662	14,811	443,473		268

1981 FOREST FIRES BY DISTRICTS

District	Number of Fires	Hectares Burned Over	Acres Burned Over	ha Per Fire	Acres Per Fire
Dryden	37	14.4	35.7	.4	1.0
Fort Frances	50	16,116.8	39,824.2	322.3	796.5
Ignace.....	42	12.1	30.0	.2	.7
Kenora	84	87.7	216.9	1.0	2.6
Red Lake.....	73	20,188.9	49,886.1	276.5	683.4
Sioux Lookout.....	119	73,420.7	181,420.1	616.9	1,524.5
Atikokan.....	34	665.6	1,644.8	19.5	48.4
Geraldton.....	92	48,836.5	120,673.5	530.8	1,311.7
Nipigon.....	88	6,415.7	15,853.1	72.8	180.1
Terrace Bay.....	36	11.5	29.5	.3	.8
Thunder Bay.....	95	119.3	295.0	1.2	3.1
Chapleau	47	3,627.2	8,962.8	77.1	190.7
Cochrane	34	47.7	118.0	1.4	3.5
Gogama	10	387.1	956.6	38.7	95.7
Hearst.....	28	279.9	691.7	9.9	24.7
Kapuskasing	25	120.6	298.2	4.8	11.9
Kirkland Lake.....	56	72.8	180.1	1.2	3.2
Moosonee	16	7,843.6	19,381.5	490.2	1,211.3
Timmins	26	14.7	36.5	.5	1.4
Blind River	33	137.8	340.5	4.1	10.3
Espanola	15	43.9	108.5	2.9	7.2
North Bay.....	42	82.6	204.3	1.9	4.9
Sault Ste. Marie	16	42.1	104.1	2.6	6.5
Sudbury	156	73.3	181.2	.4	1.2
Temagami	18	9.3	23.0	.5	1.3
Wawa	70	124.0	306.6	1.7	4.4
Algonquin Park	17	7.2	18.0	.4	1.1
Bancroft	23	32.9	81.3	1.4	3.5
Bracebridge.....	15	6.1	15.1	.4	1.0
Minden	27	62.6	154.9	2.3	5.7
Parry Sound	61	64.5	159.6	1.0	2.6
Pembroke.....	68	144.9	358.2	2.1	5.3
Carleton Place.....	18	50.0	123.7	2.7	6.9
Tweed.....	58	226.1	558.7	3.8	9.6
Huronia.....	4	33.8	83.6	8.4	20.9
Lindsay.....	12	33.2	82.2	2.7	6.9
Owen Sound	11	14.0	34.8	1.2	3.2
Total	1,656	179,471.1	443,472.6	108.3	267.8

1981 FOREST FIRES BY MONTHS

Month	Number of Fires	Hectares Burned Over	Acres Burned Over	Ac per Fire	ha per Fire
March	27	101.3	250.4	3.7	9.3
April	141	399.4	986.4	2.8	7.2
May	312	19,419.5	47,985.1	62.2	153.8
June	57	536.3	1,325.2	9.4	23.2
July	546	151,248.6	373,735.4	277.0	684.5
August	435	5,264.8	13,009.3	12.1	29.9
September	106	32.5	80.5	.3	.8
October	16	1.3	3.3	.1	.2
November	14	2,466.9	6,095.7	176.2	435.4
December	2	.5	1.3	.3	.7
	1,656	179,471.1	443,472.6	108.3	267.8

DETECTION OF FOREST FIRES

Agencies	1977	1978	1979	1980	1981
Towers	2	0	0	1	0
Ministry Aircraft.....	425	136	420	484	394
Total Organized Dtn	427	136	420	485	394
Public	1,434	750	875	1,026	1,062
Other Aircraft.....	188	54	269	268	200
Total Random Dtn	1,622	804	1,144	1,294	1,262
Total Fires	2,049	940	1,564	1,779	1,656
% age, Organized Dtn.	21	14	27	27	24

SIZES OF FOREST FIRES

Area Burned Over	1977	1978	1979	1980	1981
Up to 1/4	Acres	811	470	785	797
Over 1/4 to 10	Acres	1,006	390	669	749
Over 10 to 100.....	Acres	157	57	73	133
Over 100 to 500.....	Acres	29	18	16	45
Over 500	Acres	46	5	21	55
Total Fires		2,049	940	1,564	1,779
					1,656

PROSECUTIONS

Actions re Forest Fires	1977	1978	1979	1980	1981
Prosecutions	112	27	24	178	46
Convictions	103	27	14	171	40

CAUSES OF FOREST FIRES — I

GENERAL CAUSES	1977	1978	1979	1980	1981
Recreation	530	359	407	239	493
Resident	280	91	90	232	150
Incendiary	55	35	24	34	59
Railways	257	147	169	233	153
Industry (Forest)	18	19	21	26	36
Industry (Other)	32	21	28	15	38
Miscellaneous (Known)	310	87	101	160	209
Unknown	40	16	28	47	33
Lightning	527	165	696	793	485
Total Fires	2,049	940	1,564	1,779	1,656

CAUSES OF FOREST FIRES — II

SOURCE OF IGNITION	1977	1978	1979	1980	1981
Smoking Materials	380	171	212	173	285
Camp Fires	222	186	186	117	251
Matches	195	80	65	87	109
Fireworks	2	1	1	—	2
Explosives	2	—	1	—	2
Fusee	8	2	12	4	10
Prescribed Burning	—	2	3	—	3
Dump Ashes, Coals	5	5	7	7	6
Burning Grass	50	17	23	74	46
Burning Brush	59	39	22	35	36
Burning Rubbish	40	15	13	38	17
Burning Garbage Dump	40	8	18	33	15
Burning Bulldozed Pile	4	—	2	3	4
Burning Sawdust Pile	3	—	2	1	2
Burning Ties	12	11	10	14	16
Burning Right of Way	18	3	5	9	10
Locomotive, Diesel	38	39	37	48	38
Locomotive, Steam	—	—	—	—	—
Brake Shoe	141	66	64	101	47
Hot Box	3	—	2	6	2
Power Saw	5	1	1	7	7
Mechanical Equipment	43	30	18	34	49
Power Line (Short)	65	15	15	17	21
Sparks from Chimney	4	—	3	2	—
Sparks from Burner	1	1	3	2	1
Structural Fires	21	11	9	10	11
Miscellaneous (Known)	49	19	22	51	54
Unknown	112	54	113	114	129
Lightning	527	164	695	792	483
Total Fires	2,049	940	1,564	1,779	1,656

CAUSES OF FOREST FIRES — III

RESPONSIBLE GROUPS	1977	1978	1979	1980	1981
RECREATION					
Fishermen	141	110	138	81	184
Hunters.....	9	69	13	4	25
Canoeists.....	29	17	27	13	23
Campers.....	77	55	40	41	48
Picnickers.....	15	7	11	10	10
Berry Pickers.....	62	48	98	39	105
TRAVELLERS					
Car Passengers.....	126	38	39	70	96
Hikers.....	66	17	22	10	28
Train Passengers.....	—	—	2	—	1
Guided Parties.....	1	1	—	1	2
RESIDENTS					
Farmers	31	14	11	27	18
Rural Residents.....	137	47	47	116	88
Urban Residents	14	4	5	15	8
Private Cottagers.....	70	27	18	45	32
Resort Owners.....	3	1	1	—	5
Indians (on Reserves).....	21	5	15	21	16
VOCATION					
Trappers	1	2	—	—	1
Prospectors	1	—	2	—	2
Timber Cruisers	1	—	—	—	—
Survey Parties	—	—	2	—	—
Military	2	1	—	—	1
EMPLOYEE OF—					
Woods Industry	19	16	21	21	31
Mining.....	5	1	1	2	9
Pipeline.....	—	—	—	—	—
Hydro	6	4	5	3	3
Telephone.....	1	1	—	1	1
Highway or Road.....	2	—	3	2	1
R.R. Section Crew	37	15	8	24	22
R.R. Train Crew	31	21	9	32	24
R.R. Work Crew	185	111	147	167	102
Other Industry	12	9	6	12	17
Natural Resources.....	10	5	7	10	34
Other Prov Government	1	1	—	—	1
Federal Government	—	1	1	—	—
Municipality.....	7	—	8	5	3
MISCELLANEOUS					
Children	172	48	49	60	77
Youth Camps	3	—	—	1	3
Miscellaneous (Known).....	94	28	26	50	40
Unknown	130	51	87	103	112
Total Man-Caused Fires	1,522	775	869	986	1,173
Percentage of All Fires	74	82	56	55	71

AIR SERVICE SUMMARY — I — Hours Flown in years ending March 31

Year	Fire Ranging	Timber	Fish and Wildlife	Surveys	Lands	Parks
1978	3,149	1,127	3,775	287	1,088	538
1979	3,340	1,290	4,731	182	735	662
1980	2,000	1,650	2,500	345	1,000	600
1981	3,000	1,674	2,473	342	1,065	609
1982	1,973	1,760	2,600	360	1,120	640
1924-82 Total	239,266	38,923	109,651	3,450	16,395	13,756

Year	Research	Inter- Ministry	Photo	Mercy Flights	Miscellaneous	Total
1978	482	3,123	479	15	1,953	16,015
1979	105	2,652	578	25	364	14,633
1980	400	1,550	550	30	4,525	15,150
1981	380	1,372	621	19	3,662	15,217
1982	400	1,647	656	58	4,789	16,003
1924-82 Total	9,883	31,685	6,902	1,881	172,762	644,554

AIR SERVICE SUMMARY — II — in years ending March 31

Year	Mercy Flights	Passengers Carried	Loads Carried Tons	Metric Tons
1978	10	28,639	783.00	863
1979	3	27,937	806.74	888
1980	13	27,336	1,023.04	1,132
1981	10	25,480	801.06	883
1982	28	28,485	988.00	

ADMINISTRATION DIVISION

Room W-6345, Main Office. Telephone (416) 965-7106.

Assistant Deputy Minister	M. Mogford	W-6345... 7106
Secretary	Mrs. E. Lynch (acting)...	W-6345... 7106
Finance, Planning & Evaluation Group		
Executive Co-ordinator.....	D. M. Wood	W-6347... 6148
Affirmative Action		
Program Co-ordinator	M. Paul (acting)	W-5441... 5663

ADMINISTRATION DIVISION

COMMUNICATIONS SERVICES BRANCH

Room W-5340, Main Office. Telephone (416) 965-2756/963-1325.

Branch Director	T. E. Coleman	W-5352... 3315
Secretary	Miss M. Goh	W-5352... 3315
Communications and Corporate Planner	P. Andrews	W-5343... 2758
Administration Services Section	R. Urquhart, Spvr.....	W-5340... 2756
Information Services Section.....	Ms. V. Chavossy, Mgr. ..	W-5351... 2756
French Language Policy.....	Ms. F. Levesque, Co-ord.	W-5340... 2756
Media & Editorial Services Unit	K. Robertson, Spvr.....	W-5353... 2756
Writing Co-ordinator.....	Ms. M. Welch.....	W-5355... 2756
Media Relations Officer	C. Ross	W-5340... 2756
Magazine Editor.....	Mrs. A. Erland	W-5340... 2756
Creative Services Section.....	W. Yetman, Mgr.....	..... 3-1325
Secretary	Miss C. Klemens.....	..... 3-1325
Exhibits & Displays Unit.....	Mrs. E. H. Brown, Spvr..	..... 3-1325
Exhibits Assistant.....	Mrs. S. Cole.....	..... 3-1325
Publications Services Unit	P. J. Brown, Spvr.....	..... 3-1325
Publications Editor	Ms. M. Reid .....	..... 3-1325
Graphic Designer.....	A. Gokhan .....	..... 3-1325
Audio Visual Unit.....	L. Walton, Co-ord.....	W-5446 . 3-1325
Photographers.....	W. Lanning, Mgr.....	W-5450 . 3-1325
Film & Audio Visual Consultants...	Miss H. Bickle.....	W-5450 . 3-1325
L. Bondy.....	L. Bondy.....	W-5452 . 3-1325
G. Merchant.....	G. Merchant.....	W-5446 . 3-1325
Advertising & Marketing Unit .....	.....	W-5340. . 2756
Marketing Officer	N. Beaudry.....	W-5340... 2756
Senior Travel Counsellor	C. Mahoney (acting) .....	..... 3-3081

ADMINISTRATION DIVISION

PERSONNEL SERVICES BRANCH

Room W-4520, Main Office. Telephone (416) 965-3825.

Branch Director	H. B. Farrant	W-4527... 3825
Manpower Section.....	Mrs. E. E. Rhodes	W-4612... 2707
Training and Development	R. Brayshaw	W-4606... 2707
	C. Peterson	W-4605... 2707
Staffing.....	Mrs. R. Kelly	W-4603... 2707
	Miss N. Miller	W-4602... 2707
Manpower Control.....	E. Yhap	W-4613... 2707
Junior Ranger & Youth Programs	Ms. M. T. Campbell	W-4501... 1258
Compensation & Staff Relations Section	J. A. Temple	W-4525... 6091
Pay and Classification	E. Polonoski	W-4525... 6091
	Mrs. M. Goldhar	W-4526... 6091
	Mrs. M. Koszarny	W-4527... 6091
	Miss J. M. Byer	W-4528... 6091
	D. F. Craddock	W-4524... 6091
Staff Relations.....	J. Quinn	W-4529... 3825
Employee Relations	Mrs. C. Mahon	W-4522... 9951
Personnel Records Section	Mrs. L. England	W-4520... 3961
Accounting & Benefits	Miss N. Davidson	W-4520... 3961
Safety Program Development Section ..	A. B. Shipston	W-4502... 2735
Human Resources Planning Section....	Miss N. Boucher	W-2544... 0323

PERSONNEL SERVICES BRANCH

Total Staff

March 31, 1982	Regular	Probationary	Unclassified	Total
Main Office.....	892	56	492	1,440
Field Offices	3,201	153	1,073	4,427
Total	4,093	209	1,565	5,867
Total Number of Positions	4,550			
Total Number of Staff	4,302			
Total Number of Vacancies	248			
New Employees Hired 1981/82.....	140			
Management Staff.....	1,063			
Executive Staff.....	45			
Bargaining Unit Staff.....	3,239			
Total	4,347			
Deceased.....	9			
Transferred.....	36			
Released.....	0			
Resigned.....	81			
Dismissed.....	1			
Retired	45			
Miscellaneous	0			
Total	172			

STAFF SUMMARY

Staff at March 31	1978	1979	1980	1981	1982
Regular Staff	3,614	3,919	4,088	4,060	4,093
Probationary Staff	250	456	341	322	209
Unclassified Staff	2,051	1,698	1,938	1,636	1,565
Total Staff.....	5,915	6,073	6,367	6,018	5,867
Main Office Staff.....	906	930	917	880	863
Field Office Staff.....	2,958	3,445	3,512	3,502	3,439
New Employees.....	250	862	316	306	140
Deceased	9	8	11	10	9
Superannuated	95	97	89	99	45
Transferred.....	49	32	38	1	36
Resigned	91	146	199	165	81
Dismissed	1	0	3	3	1
Released.....	1	4	1	5	0
Miscellaneous.....	0	0	0	29	0
Total Separations	246	287	341	312	172
Junior Rangers.....	1,918	1,968	1,800	1,736	1,736

MANAGEMENT GROUPS

Administrative	239
Clerical	14
Operational	19
Professional	283
Technical.....	508
Total	1,063

Executive Compensation Plan — 45

BARGAINING UNIT CATEGORIES

Administrative Services.....	74
Scientific & Professional Services	450
Technical Services	1,398
Office Services	391
Clerical Services.....	526
Maintenance Services	310
General Operational Services	90
Total	3,239

ADMINISTRATION DIVISION

ENERGY OFFICE

Room W-5446, Main Office. Telephone (416) 965-5537.

Executive Co-ordinator.....	Dr. M. Walmsley	W-6350... 5720
Admin. Asst. (Energy & BILD).....	A. Ireland-Smith	W-5447... 5537

Energy Policy Advisors

Mineral Resources	P. Telford	1183
Forest Resources	W. Alton	2731
Administration.....	G. Laivenieks.....	4600
Lands and Waters	T. Kurtz.....	6285
Outdoor Recreation.....	S. Fasken.....	5661

BILD OFFICE

Co-ordinator.....	D. M. Wood	W-6347... 6148
Admin. Asst. (Energy & BILD).....	A. Ireland-Smith	W-5447... 5537

ADMINISTRATION DIVISION

ADMINISTRATIVE SERVICES BRANCH

Room W-5528, Main Office. Telephone (416) 965-2711.

Branch Director	J. A. Queen	W-5528... 2711
Services Section	R. Armstrong, Chief	W-5529... 3317
Support Services	H. L. Bembridge, Mgr....	W-5301... 5134
Conferences, Hospitality	M. D. Cantelon.....	W-5526... 6166
Office Services .....	.....	W-5301... 5134
Vehicle Pool	Mrs. J. Mills	W-5301... 5134
Public Service Centre	Mrs. M. I. Leuty, Spvr....	W-1640... 6511
General Inquiry (MNR). (Whitney Block Info Booth)	.....	..... 2000
Central Supply Warehouse .....	.....	..... 1286
51 Esander Drive, Toronto.		
Data Process	R. Khan, Supv.....	W-5420... 0116
Remote Job Entry Terminal	Miss D. Danlake	W-5426... 3419
Copy Centre .....	.....	W-5501... 6790
Mail Services .....	.....	W-5310... 2778
Telex & Telecopier .....	.....	W-5312... 2784
Facilities Development	T. Pierro, Mgr.	W-5423... 4600
Accommodation Officer	J. Petersen	W-5423... 4600
Accommodation Services	S. Fenton	W-5423... 4600
Purchasing	J. May, Spvr.	W-5520... 1601
Operations Analysis Section	G. Laivenieks, Chief	W-5520... 4600
Fleet Insurance	L. Krol	W-5503... 1255
Supply Analyst	Mrs. L. Wright	W-5525... 4600
Contracting Specialist	J. Farrell	W-5524... 4600
Records Management and Office Methods	A. Lesser, Mgr.	W-5422... 3822
Methods Analyst	A. Vander Veen	W-5422... 3822
Microfilm Unit .....	.....	W-5601... 0628
Word Processing Unit .....	.....	W-5422... 3822
Administrative Technology Section	D. Waller, Chief	W-5520... 4600

VEHICLES AND EQUIPMENT IN SERVICE — in year ending March 31, 1982

Type	*Number in Operation
Subcompact Cars and Station Wagons.....	7
Compact Cars and Station Wagons.....	145
Full-size Cars and Station Wagons	106
Standard and Extended Pickups	742
Four-wheel Drive Vehicles	258
Crew Cabs and Cargo Vans	76
Passenger Vans and Personnel Carriers.....	128
Buses	9
 Cab and Chassis — 10,000 GVW	91
Cab and Chassis — over 10,000 GVW	147
Cab and Chassis — specialized bodies.....	28
 TOTAL.....	1,737
 Motorcycles.....	49
Trailers (boat and equipment).....	985
Trailers (refrigerated).....	26
Snowmobiles	580
Tractors	305

*Number includes replacements and vehicles to be disposed of.

ADMINISTRATION DIVISION

LEGAL SERVICES BRANCH*

Room W-6420, Main Office. Telephone (416) 965-2748.

Director	J. Shantora	W-6427 . . . 2748
Solicitors	C. L. Cottle	W-6423 . . . 2748
	B. G. Jones	W-6422 . . . 2748
	R. C. Kay	W-6428 . . . 2748
	L. A. Low	W-6425 . . . 2748
	W. J. Obelnycki	W-6424 . . . 2748
	J. M. Pounder	W-6429 . . . 2748
	T. N. Trow	W-6426 . . . 2748

LEGAL SERVICES — year ending March 31, 1982

Regulations Prepared and Processed	Orders in Council	Legal Agreements
75	504	364

*Legal Services Branch was transferred to the Attorney General on April 1, 1973, and seconded to the Minister of Natural Resources on the same date.

LEGISLATION

The Acts administered by the Ministry are as follows.

LANDS AND WATER GROUP

THE BEDS OF NAVIGABLE WATERS ACT (sometimes referred to as the "Cochrane Act") is declaratory legislation relating to title in the beds of navigable waters. It followed the decision in the 1911 case of Keewatin Power versus The Town of Kenora. By the Act, the beds are deemed not to have passed to the grantee of bordering Crown land in the absence of an express grant.

THE ONTARIO GEOGRAPHIC NAMES BOARD ACT provides for the establishment of a Geographic Names Board for Ontario having the duty to gather information respecting the names of places and geographical features, make recommendations thereon, collaborate with the Canadian Permanent Committee on Geographic Names, and provide information to government departments, etc. The Minister may approve a recommended name and thereupon it shall be used by all government departments and agencies in the preparation of maps and other publications.

THE ONTARIO HARBOURS AGREEMENT ACT, 1962-3, confirms on behalf of Ontario the agreement between Ontario and Canada establishing the harbours which were public harbours at Confederation, providing that mines and minerals therein are administered by Ontario and confirming grants and quit claims listed therein. The federal harbours are Amherstburg, Belleville, Brockville, Chatham, Collingwood, Fort William, Gananoque, Goderich, Kincardine, Kingston, Kingsville, Leamington, Oshawa, Owen Sound, Penetanguishene, Port Arthur, Port Burwell, Port Hope, Port Stanley, Prescott, Rondeau Bay, Sarnia, Sault Ste. Marie, Southampton, Toronto, Whitby and Windsor.

THE PUBLIC LANDS ACT provides for: (1) A Public Agricultural Lands Committee to recommend on agricultural lands and their settlement, replacing the regulations on this subject; (2) The disposition of Crown land for a variety of purposes by sale, lease or licence, and by auction or tender; (3) The management of Crown land by the Ministry by zoning for land use, setting apart for public use, research, etc., and through agreements with municipalities on beaches and water lots; (4) The administration of roads on Crown lands including the designation of public forest roads and agreements with occupiers of private forest roads respecting the use by the public of private forest roads; (5) The administration and control of the construction and maintenance of dams; (6) The granting of water powers and privileges.

THE SURVEYORS ACT deals with the Association of Ontario Land Surveyors and the rules governing membership and conduct. The Minister or his appointee and the Surveyor-General are members of the Council of Management.

THE SURVEYS ACT defines the system of surveys and the rules for surveyors. The Minister orders surveys made on his volition or upon application to settle disputes or lost lines, etc.; after hearing evidence, he confirms the surveys, with or without amendment. His decision is subject to appeal to a judge of the Supreme Court.

THE NORTH GEORGIAN BAY RECREATIONAL RESERVE ACT, 1962-3, establishes the North Georgian Bay Recreational Reserve and provides for the planning and development thereof and the appointment of a committee to advise the Minister thereon.

THE MINING ACT with respect to: the administration of public lands for mining purposes; the issuing of licences and leases relating to exploration and drilling for, and the production of, minerals and oil and natural gas; the staking and recording of mining claims; and the rights of licensees and lessees under the Act. An acreage tax is levied under this Act. (See under Mineral Resources Group).

THE BEACH PROTECTION ACT prohibits the removal of sand from the bed, bank, beach, shore or waters of any lake, river or stream in Ontario except under the authority of a licence issued under the Act. Licensees may be required to pay a fixed sum per yard of sand removed from property of the Crown.

THE CANADA COMPANY'S LAND ACT, 1922, empowers the Crown to sell and convey to purchasers of lands from the Canada Company the mineral rights in the lands.

THE LAKES AND RIVERS IMPROVEMENT ACT deals with: the construction, repair and use of dams; timber driving; and timber slide companies and tolls. The Minister is charged with the responsibility of settling disputes between conflicting users under certain circumstances. An officer may be appointed to regulate the use of waters or works.

THE CONSERVATION AUTHORITIES ACT provides for the establishment of conservation authorities for the purpose of establishing and undertaking in the area over which they are given jurisdiction, programs designed to further the conservation, restoration, development and management of natural resources other than gas, oil, coal and minerals.

FOREST RESOURCES GROUP

THE CROWN TIMBER ACT enables the granting of the following four types of licences to cut Crown timber: a licence based on a call for tenders, a licence to salvage timber, a licence for areas that do not exceed 64.75 hectares (160 acres), and a licence approved by Order in Council for large areas.

The Act also enables the Minister to enter into comprehensive forest management agreements with members of the forest industry to ensure that forests under the agreements are harvested and regenerated to produce successive crops of timber on a sustained yield basis.

Crown Management Units may be established under the Act and agreements entered into for the supply of Crown timber from such units. Under this arrangement, the party to the agreement does not have exclusive rights in a specific area until a licence is granted to him to fill his requirements for an operating season.

Crown dues and area charge are fixed by the regulations.

Other subjects dealt with are: forest management, operating and annual plans; examination of scalers and licensing of scalers; licensing of mills; penalties for wasteful practices, unauthorized cutting, removal of timber before scaling, and other violations; and protection of the Crown's interests through seizure of timber and a statutory lien for Crown charges.

THE FORESTRY ACT. Under this Act: (1) The Minister enters into agreements with landowners such as municipalities, conservation authorities and the National Capital Commission (Ottawa) to manage the forest lands; (2) Ministry tree nurseries are established and nursery stock is distributed; (3) Private forest reserves are set up on private lands with the consent of the owner; (4) The Minister, with the approval of the Lieutenant Governor in Council, may establish programs for the encouragement of forestry. At present, a managed forest tax reduction program has been established by the Minister.

THE SETTLERS' PULPWOOD PROTECTION ACT provides for the regulation of the sale and of the price of pulpwood cut from settlers' land.

THE SPRUCE PULPWOOD EXPORTATION ACT provides for the exportation under the authority of an Order-in-Council of unmanufactured spruce pulpwood from lands granted under special Acts which prohibit such export.

THE TREES ACT provides that, with the Minister's approval, municipalities may pass by-laws restricting and regulating the destruction of trees and appoint enforcement officers. Generally, by by-law, municipalities may acquire land for forestry purposes and enter into agreements with the Minister for the management of such lands and related matters.

THE WOODLANDS IMPROVEMENT ACT provides for the Minister to enter into agreements with owners of lands suitable for forestry purposes and situate in a private forest management area for the planting of nursery stock or stand improvement.

THE WOODMEN'S EMPLOYMENT ACT authorizes the appointment of inspectors and the making of regulations respecting conditions in lumber camps. It also provides that Crown timber licensees are responsible for the acts and omissions of their jobbers and subcontractors who carry out operations.

THE WOODMEN'S LIEN FOR WAGES ACT provides a lien and a procedure to enforce such lien for persons performing labour on timber.

THE ALGONQUIN FORESTRY AUTHORITY ACT establishes a Crown corporation known as the Algonquin Forestry Authority to harvest Crown timber in Algonquin Provincial Park and public lands adjacent to the park, to sell the logs, and also to carry out such forestry, land management and other programs and projects as the Minister of Natural Resources authorizes.

THE FOREST TREE PEST CONTROL ACT provides for the control of outbreaks of forest tree insects and diseases on private lands.

MINERAL RESOURCES GROUP

THE MINING ACT with respect to the issuing and administration of exploratory licences and production leases for oil and natural gas on public lands in designated parts of Ontario; processing applications for exemptions from restrictions on foreign processing; refinery licences; and the regulation of mining operations conducted within Ontario except under Part IX. (Also see under Lands and Waters Group.)

THE PITS AND QUARRIES CONTROL ACT provides for the regulation of pit and quarry operations in designated parts of Ontario. Operations in designated areas must be licensed under the Act and are subject to periodic review to assure compliance with the provisions of the Act, the regulations and site plan.

THE PETROLEUM RESOURCES ACT sets forth licensing requirements for various aspects of oil and natural gas exploration, drilling and production and provides for the making of regulations respecting oil and gas conservation and the safe operation of drilling and production facilities.

THE MINING TAX ACT a revenue generating unit which offers incentives to mineral producers for exploration, production and processing in Ontario, imposes a profit tax on Ontario mines. The tax is assessed on the value of output of the mine at the pit's mouth determined in accordance with the provisions of the Act.

THE ONTARIO MINERAL EXPLORATION PROGRAM ACT provides incentives to encourage mineral exploration activities in the province by providing grants/tax credits equal to 25% of eligible exploration expenses to prospectors, non-producing exploration companies and to individual investors and corporations not directly engaged in mining activities in order to stimulate the financing of mineral exploration.

THE INDUSTRIAL AND MINING LANDS COMPENSATION ACT provides for agreements between the owner or operator of a mine and the owner or lessee of any land for payment of compensation for any damage or injury resulting or likely to result to the land or to its use and enjoyment from the operation of the mine.

THE GAS AND OIL LEASES ACT sets out the procedure whereby a lessor under a gas or oil lease may, upon default by the lessee under the terms of the lease, obtain an order declaring the lease void.

OUTDOOR RECREATION GROUP

THE ENDANGERED SPECIES ACT provides for the conservation, protection, restoration and propagation of species of flora and fauna of the Province of Ontario that are threatened with extinction.

THE GAME AND FISH ACT deals with the management of wildlife resources; game animals; game birds (upland); fur-bearing animals; frogs; sale and rearing of game fish; and offences and enforcement. Regulations made under the Act establish open seasons for hunting and trapping; bag limits; Crown game preserves; the licensing of hunters, trappers, guides, persons operating game bird hunting preserves, and persons selling game fish for stocking and human consumption; the regulating of dogs used in hunting, aircraft transporting hunters, and conduct of hunters (hunter safety); and farmer-hunter relations. The Game and Fish Hearing Board was established under the Act on November 15, 1973.

THE FISH INSPECTION ACT is complementary to the Federal Act.

THE FISHERIES ACT (CANADA). Ontario Fishery Regulations are made under this Act. They relate to open seasons for angling and commercial fishing and the licences required. The form of licences and the fees are prescribed under The Game and Fish Act.

THE FISHERIES LOAN ACT provides for loans to persons carrying on the business of commercial fishing or any other business dependent in whole or in part on the taking of fish from waters in which such taking has been prohibited by reason of the contamination of fish resulting from pollution of the water. Provision is made for federal-provincial agreements respecting the sharing of such loans.

THE FRESHWATER FISH MARKETING ACT (ONTARIO) complements the Freshwater Fish Marketing Act (Canda). Through these Acts and the federal-provincial agreement, the Freshwater Fish Marketing Corporation established under the Federal Act is the sole purchaser of commercial fish, as defined in the Federal Act, taken in that part of Ontario designed in the regulations, i.e., that part of Ontario westerly of longitude 86° except the Territorial District of Rainy River but including that part of Lake of the Woods in the Territorial District of Rainy River. Sales to and purchases by persons for their own consumption or for consumption by persons or animals in the course of the purchaser's business are excepted.

THE WILD RICE HARVESTING ACT prohibits the harvesting of rice on Crown land except under the authority of a licence.

THE WOLF DAMAGE TO LIVESTOCK COMPENSATION ACT, 1972, provides for payment of compensation to the owners of livestock killed or injured by wolves.

THE MIGRATORY BIRDS CONVENTION ACT. Open seasons for migratory birds are set under this Act.

THE PROVINCIAL PARKS ACT provides for the establishment of provincial parks and their management and for certain employees having the authority of the O.P.P. in a provincial park. Advisory committees for one or more provincial parks may be appointed by the Minister with the approval of the Lieutenant-Governor in Council.

Parks may be classified as a natural environment park, a nature reserve park, a wilderness park, a recreational park, a waterways park, or an historical park. Any of these classes may be zoned with controlled use in zones.

Mining is prohibited in provincial parks except as provided in the regulations. The regulations on mining were revoked in 1956 but rights and interest existing at that time were preserved.

Hunting is prohibited in provincial parks except as provided in the regulations under The Game and Fish Act or where the prohibition is removed by designation of the Lieutenant-Governor in Council under The Provincial Parks Act. This does not apply to the Townships of Bruton and Clyde (added to Algonquin Provincial Park by a Special Act).

Concession leases are granted under the Act. The Province calls for tenders for buildings and facilities.

Vehicle admission charge is \$2.50 per day or \$25.00 for the season. Campsite charges are \$6.00 per day, or \$6.50 per day where comfort station facilities are available, and \$8.00 per day for campsites with electrical power. The charge for an extra car on a campsite is \$3.00 per day. On unorganized campsites in park interiors, the charge is \$4.00 per boat per day.

The above fees reflect those charged during peak periods, they may vary depending on location and time of year.

This Act does not apply to any park under the management of the Niagara Parks Commission, the St. Lawrence Parks Commission or the St. Clair Parkway Commission.

THE WILDERNESS AREAS ACT was passed on March 26, 1959, to preserve areas having some unique feature. Development or utilization of the natural resources in an area more than 260 ha (640 acres) in size is not affected by this Act.

THE PARKS ASSISTANCE ACT provides for the establishment of parks in municipalities or in territory without municipal organization. The Minister may with the approval of the Lieutenant-Governor in Council make grants not exceeding 50% of the cost of acquiring land and developing such parks. The parks established under the Act are to be maintained and operated in a manner complementary to provincial parks.

AVIATION AND FIRE MANAGEMENT CENTRE

THE FOREST FIRES PREVENTION ACT applies to the seven fire regions set up by regulation. The fire season, from April 1st to October 31st, may be extended by regulation. Fire permits are required during the fire season to (a) start fires in a fire region except for fires set out for cooking or warmth or to (b) ignite fireworks in or within 300m (1,000 feet) of a forest or woodland. Work permits are required at any time of the year for carrying on any logging, mining, industrial operation or clearing in or within 300m (1,000 feet) of a forest or woodland. Areas may be established as restricted fire zones in which fires for cooking or warmth will be restricted to portable stoves and barbecues or as restricted travel zones in which a travel permit will be required except on public roads, cities, towns, villages, police villages, supervised camping grounds and water adjacent thereto. The Minister may declare emergency areas and may make orders for suppression and the safety and evacuation of persons. The Minister may enter into agreements with Canada, any province, any federal or provincial agency or municipality respecting the prevention and control of forest fires. The regulations establish fire precautions.

GENERAL

THE MINISTRY OF NATURAL RESOURCES ACT effective as of April 1, 1972, created the new Ministry of Natural Resources by amalgamating the former Department of Lands and Forests and Department of Mines and Northern Affairs and repealed the provisions of a number of Acts on which the departments depended for administrative authority. Effective October 30, 1973 the Act provides for the appointment of a Mining and Lands Commissioner and advisory committees.

THE LAKE OF THE WOODS CONTROL BOARD ACT, 1922, is complementary to a Federal Act of 1921. It deals with the regulation of the water levels of the Winnipeg River, the English River, Lac Seul and Lake St. Joseph. The Board was created following a report in 1917 by the International Joint Commission which was established under a

treaty made in 1909 between United States and Great Britain. The membership of the Board consists of a Federal representative and one from Manitoba and two from Ontario. One Ontario member is appointed by the Ontario Hydro. The other is R. M. Odell, Head, Consultative Services, Conservation Authorities and Water Management Branch, Ministry of Natural Resources, with R. B. Chang as alternate member.

The Board has the duty to secure severally and at all times the most dependable flow and the most advantageous and beneficial use of the Winnipeg and English Rivers and, for that purpose, to regulate the overflow of:—

(a) Lake of the Woods, to levels recommended by the International Joint Commission as agreed by Canada and the United States;

(b) Lac Seul, to levels recommended by the Board and approved by the Lieutenant-Governors in Council of Ontario and Manitoba and to regulate the flow into Lac Seul through the Lake St. Joseph diversion.

(c) Winnipeg River, between its junction with the English River and Lake of the Woods, and the English River between its junction with the Winnipeg River and Lac Seul; and

(d) Other waters of the watershed of the Winnipeg River as are placed under its jurisdiction by the Governor-General in Council and the Lieutenant-Governors in Council of Ontario and Manitoba.

THE LAC SEUL CONSERVATION ACT, 1928, provides for the execution of an agreement between the Minister of Lands and Forests and the Government of Canada regarding the construction of a conservation dam at the outlet of Lac Seul.

THE OTTAWA RIVER WATER POWERS ACT, 1943, ratifies and confirms an agreement between the Province of Ontario, the Province of Quebec, the Hydro-Electric Power Commission of Ontario and the Quebec Streams Commission respecting the development of water power on the Ottawa River.

THE SEINE RIVER DIVERSION ACT, 1952, confirms the partial diversion of the Seine River and authorizes the completion and operation of the diversion by Steep Rock Iron Mines Limited.

THE NATIONAL RADIO OBSERVATORY ACT, 1962-3, provides for the transfer of administration and control of certain public lands in the Township of White, District of Nipissing, to Canada for the maintenance and operation of a national radio observatory.

THE GANANOQUE LANDS ACT, 1961-2, vests certain lands in the Town of Gananoque in the Crown and authorizes the sale of encroachments to adjoining owners for a fee of \$50.00 and the granting of the balance of the land.

THE ALGONQUIN PROVINCIAL PARK EXTENSION ACT, 1960-1, adds the public lands in the Geographic Townships of Bruton and Clyde in the Provincial County of Haliburton to the park, subject to hunting.

THE MINERAL EMBLEM ACT, 1975, adopts the amethyst as the mineral emblem of the Province of Ontario.

THE MANITOBA-ONTARIO LAKE ST. JOSEPH DIVERSION AGREEMENT AUTHORIZATION ACT, 1958 provides for entry by Ontario and The Hydro-Electric Power Commission of Ontario into an agreement with Manitoba and The Manitoba Hydro-Electric Board in respect of the diversion of waters into the Winnipeg River and electrical power generated from such waters in Ontario and Manitoba.

*The Minister of Tourism and Recreation has been designated to administer these Acts by virtue of Order in Council 464/82 as of February 13, 1982.

ADMINISTRATION DIVISION

FINANCE, PLANNING AND EVALUATION GROUP

Room W-6347, Main Office. Telephone (416) 965-6148.

Executive Co-ordinator	D. M. Wood	W-6347... 6148
Secretary	Mrs. C. Caddell	W-6346... 6147
Management Planning and Analysis		
Director.....	G. A. Kettel (acting).....	W-6341... 4143
Systems Services		
Director.....	J. H. Findeis	W-4429... 2750
Systems Co-ord. Mgr.....	C. K. Moulson	W-4426... 5674
Manager, Systems.....	R. Seel	W-4428... 5672
Mgmt. Information System		
Implementation Director.....	V. K. Macdonald	W-5445... 2781

FINANCIAL SERVICES BRANCH

Room W-4325, Main Office. Telephone (416) 965-2761.

Branch Director	A. C. Goddard	W-4324... 2761
Chief Accountant	A. R. Taylor	W-4326... 2761
Accounts Payable Section	J. T. Tunnicliff	W-4302... 2764
Licence Issuing Section	T. Headley	W-4342... 2814
Payroll Section.....	C. P. Edward	W-4341... 2766
Revenue Section	S. A. Perry	W-4443... 2770
Financial Reporting and Control Sect. .	I. A. Nott, Manager	W-4323... 1895
Expenditure Control	R. Kerr	W-4321... 1895
Financial Reporting & Claims.....	V. Ferrara	W-4321... 1895
Financial Methods Section.....	G. Jarzabek, Mgr.	W-4420... 1218
Financial Policy Development Section ..	E. V. Young, Mgr.	W-4340... 1033

REVENUE AND EXPENDITURES — in years ending March 31

Year	Budgetary Revenue	Budgetary Expenditure
1978	\$ 99,733,072	\$ 242,207,223
1979	129,401,477	246,388,247
1980	202,825,624	279,799,068
1981	275,562,265	349,475,311
1982	160,546,904	363,253,018

LANDS REVENUE — in years ending March 31

Year	Water Power	Crown Land Sales	Crown Land Rentals	Park Rentals & Fees	Pits and Quarries Licences	Land Use Permits
1978	\$ 13,715,920	158,100	686,992	\$ 44,931	\$ 89,300	\$ 401,880
1979	16,132,257	762,394	741,831	41,672	109,175	440,550
1980	19,279,984	1,899,009	577,784	57,788	116,625	479,869
1981	19,158,930	2,936,644	754,447	131,733	114,125	478,788
1982	20,604,400	2,243,525	947,993	125,483	159,275	558,492

Year	Assignments & Extension Fees	Cons. Federal Agreements	Authorities Return of Grants	Recovery Prior Years Land Acquisition	Misc.	Total
1978	\$ 39,562	\$ 1,100,177	\$ 12,629	\$ 18,987	\$ 14,380	\$ 16,,282,858
1979	29,906	575,491	127,846	5,402	40,437	19,006,961
1980	22,045	133,317	54,228	94,270	98,218	22,813,137
1981	85,131	413,588	69,325	2,243	270,350	24,415,304
1982	16,300	511,589	469,201	103,966	87,549	25,827,773

TIMBER REVENUE — in years ending March 31

Year	Stumpage Charges	Timber Area Charges	Nursery Tree Sales	Agreement Forest	Federal Agreement	Misc.	Total
1978	\$ 30,776,425	\$ 2,232,462	\$ 213,095	\$ 253,492	\$ 982,418	\$ 76,098	\$ 34,533,990
1979	37,193,516	1,832,965	242,380	494,525	795,530	96,966	40,655,882
1980	42,729,326	5,471,287	235,525	635,368	26,344	86,385	49,184,235
1981	47,266,552	4,401,176	609,097	282,646	1,885	92,587	52,653,943
1982	38,204,534	4,437,802	818,152	354,783	9,751	68,697	43,893,719

MINING REVENUE — in years ending March 31

Year	Licences and Permits	Mining Claims	Sale of Mining Lands	Rentals	Royalties	Taxes	Forfeitures	Laboratory Fees	Rec. of Prior Years Expenditure	Total
1978	\$ 81,295	280,417	\$ 17,870	\$ 802,480	\$ 1,065,821	\$ 22,919,376	4,210	\$ 70,698	\$ 1,074	\$ 25,243,241
1979	60,875	254,066	8,236	827,911	1,380,839	42,372,537	3,360	80,499	125,394	45,113,717
1980	103,787	362,937	6,860	948,112	1,539,814	99,674,524	3,330	125,936	31,891	102,797,191
1981	111,328	639,844	11	847,501	2,380,790	161,061,781	4,060	108,408	—	165,153,723
1982	319,952	537,731	3,191	582,818	2,250,102	55,411,740	2,840	153,161	—	59,261,535

PROVINCIAL PARKS REVENUE — in years ending March 31

Year	Permits	Campsites Permits	Concessions Rental	St. Lawrence Lic & Permits	Federal Agreement	St. Clair Parkway Commission	Misc.	Total
1978	\$ 729,408	\$ 3,753,880	\$ 350,837	\$ 1,432,275	\$ 421,208	\$ —	\$ 69,865	\$ 6,757,473
1979	913,499	5,238,214	371,071	1,791,382	288,258	—	168,961	8,771,385
1980	971,351	5,325,333	450,018	1,896,935	1,337,144	115,000	100,850	10,196,631
1981	935,283	5,585,691	477,926	1,931,825	2,448,976	15,000	133,917	11,528,618
1982	1,215,227	5,519,852	356,984	1,933,584	1,572,055	18,000	188,964	10,804,666

FISH AND WILDLIFE REVENUE — in years ending March 31

Year	Non-Resident Angling	Other Fishing	Commercial Fishing	Non-Res Hunting	Resident Bear	Resident Deer	Resident Moose	Resident Groundhog	Res(Gun) Hunting
1978	\$ 5,603,400	\$ 93,838	\$ 95,125	\$ 1,766,613	\$ 9,466	\$ 863,246	\$ 1,056,029	\$ 75,678	\$ 997,357
1979	5,825,469	104,533	96,832	1,935,617	12,489	886,363	1,235,920	80,624	1,022,792
1980	5,750,812	111,185	104,928	2,260,030	13,539	1,129,511	1,436,576	74,068	1,502,536
1981	7,513,033	152,757	122,301	1,605,102	87,738	1,184,553	1,483,473	100,653	1,629,245
1982	7,610,191	156,957	177,419	1,490,490	122,105	1,296,196	1,375,086	83,677	1,584,495

Year	Dog	Trappers	Fur Dealers	Hunter Exam Fee	Prov. Park Hunting	Misc. Fees & Licences	Royalty Game	Outside Agencies	Agreements	Federal	Total
1978	\$ 15,681	\$ 52,969	\$ 5,965	\$ 105,339	\$ 59,800	\$ 95,806	\$ 666,789	\$ 18,636	\$ 321,114	\$ 11,902,851	
1979	17,252	62,177	7,750	101,613	67,312	97,424	562,619	1,070	309,919	12,427,775	
1980	37,179	66,730	8,170	88,797	64,408	153,246	931,496	—	266,117	13,999,328	
1981	76,998	69,635	8,400	90,006	66,088	118,488	1,201,461	76,016	291,475	15,877,422	
1982	75,957	65,387	8,950	85,722	53,400	140,728	1,159,433	123,947	361,447	15,911,587	

OTHER CASH RECEIPTS — in years ending March 31

Year	Sale of Maps Publications etc.	Fire Costs Recovered	House Rentals	Sale of Buildings	Sale of Van & Eqpt.	Confiscated Articles	Frost Centre	Non-recurring Items and Misc.	Board & Lodging	Total
1978	\$ 1,817,587	\$ 835,720	\$ 457,659	\$ 16,177	\$ 875,868	\$ 84,033	\$ 292,358	\$ 633,257	\$ —	\$ 5,012,659
1979	1,931,946	391,611	436,711	23,784	224,918	32,445	230,637	153,705	—	3,425,757
1980	2,253,723	67,284	452,803	26,840	420,736	51,918	245,126	316,672	—	3,835,102
1981	2,265,256	651,527	415,824	14,513	1,648,707	21,714	296,127	378,010	241,577	5,933,255
1982	2,300,366	670,538	450,197	5,112	479,650	46,149	340,651	379,107	175,854	4,847,624

ADMINISTRATION DIVISION
Finance, Planning and Evaluation Group

INTERNAL AUDIT SERVICES BRANCH

Room W-4637, Main Office. Telephone (416) 965-4087

Branch Director A. A. Ward W-4637... 4087

Main Office
Audit Manager D. L. Lay W-4634... 4088

Northeastern Audit Section
875 Queen Street East
Sault Ste. Marie, P6A 2B3
Senior Auditor W. C. Johnstone (705) 942-1418
(IC 842)

Northwestern Audit Section
Box 5000
Thunder Bay, P7C 5G6
Audit Manager N. D. Nurse (807) 475-1211
(IC 844)

Southern Audit Section
c/o District Office
Maple, L0J 1E0
Audit Manager D. A. Dooling (416) 832-2761
Ext. 281

BUDGET AND PROGRAM EVALUATION BRANCH

Room W-6311, Main Office. Telephone (416) 965-4218.

Branch Director	M. W. Cox	W-6311 . . . 4218
Program Planning and Budget Section		
Manager	D. Lay (acting)	W-6309 . . . 4210
Budget Supervisor	J. Heywood	W-6309 . . . 5539
Financial Analyst	J. Rawston	W-6309 . . . 4210
Program Evaluation Sector		
Manager	G. Doan	W-6540 . . . 4218
Control Systems and		
Financial Analysis Section		
Manager	D. M. Powers	W-6540 . . . 9052
Senior Financial Analyst	R. McDougal	W-6312 . . . 9052
Budget Accountant	P. Chen	W-6312 . . . 9052

NORTHWESTERN REGION

D. R. Johnston	Regional Director	Box 5160, 808 Robertson St., Kenora, Ont P9N 3X9	Phone (807) 468-3111
W. J. Straight	Deputy Reg Director		
D. R. Fortner	Deputy Reg Director		
G. N. McGeachy	Admin Co-ord	A. G. Mathews	Forester
K. J. Chambers	Biologist	G. G. Pyzer	Lands Co-ord
R. J. Kincaid	Fire Mgt Officer	R. A. Balkwill	Parks & Rec Co-ord
G. N. Warner	Safety Officer	S. O. Russell	Eng Services Co-ord
R. C. Beard	Geologist	W. S. Mathew	Mining Lands Admin.
D. A. Janes	Geologist Sioux Lookout	A. Hanson	Mining Recorder Sioux Lookout
M. Durocher	Geologist	A. S. Rivett	737-2100 Mining Recorder
Red Lake	727-2252	Red Lake	727-2250

Region Service Centre, G. M. Fenelon, Box 850, Dryden Phone (807) 937-4402
Dryden Forest Station, T. R. Myland, Box 90, Wabigoon Phone (807) 938-6326

KENORA DISTRICT

Box 5080, 808 Robertson St., Kenora Ont P9N 3X9	Phone (807) 468-9841
D. B. McGregor	District Manager
R. G. McCue	Administration
D. Philippi	Field Services
G. K. Winterton	Fish & Wildlife
W. H. Mills	Forests
T. J. Lunny	Lands
R. W. Paterick	Parks

SIOUX LOOKOUT DISTRICT

Box 309, Sioux Lookout Ont P0V 2T0	Phone (807) 737-1140
A. J. Stewart	District Manager
W. L. Bertrand	Administration
H. D. Morrison	Field Services
A. A. Martin	Fish & Wildlife
J. M. McIntyre	Forests
F. E. Brown	Lands & Parks

RED LAKE DISTRICT

Box 323, Red Lake, Ont P0V 2M0	Phone (807) 727-2531
E. W. Everley	District Manager
B. A. Larkin	Administration
B. A. Sandilands	Fish & Wildlife
P. R. Gagnon	Forests
T. E. Campbell	Field Services
E. R. Keast	Lands

FORT FRANCES DISTRICT

922 Scott Street, Fort Frances Ont P9A 1J4	Phone (807) 274-5337
J. K. Cleaveley	District Manager
B. Y. Katerick	Administration
S. E. Cameron	Field Services
E. J. Swift	Fish & Wildlife & Parks
A. P. Matiece	Forests
C. E. Horne	Lands

DRYDEN DISTRICT

Box 3000, Ontario Govt Bldg, Dryden Ont P8N 3B3	Phone (807) 223-3341
G. M. Tupling	District Manager
J. Hamilton	Administration
A. MacDonald	Field Services
R. W. Taylor	Forests
H. Gibbard	Fish & Wildlife
D. Lindstrom	Lands & Parks

IGNACE DISTRICT

Box 448, Ignace Ont P0T 1T0	Phone (807) 934-2233
T. E. Dodds	District Manager
W. A. Brunton	Administration
P. R. Croskery	Fish & Wildlife
B. Ferguson	Forests
J. D. Bond	Field Services
P. J. Pincombe	Lands, Parks

NORTH CENTRAL REGION

L. M. Affleck	A/Regional Director	Box 5000, Ontario Government Building
D. E. McHale.....	A/Deputy Reg. Director	435 James St. South, Thunder Bay 'F'
W. Hendry.....	Deputy Reg Director	Ont P7C 5G6... Phone (807) 475-1261
J. D. Chadwick ...	Admin Co-ord	1221
R. T. Thomson ...	Biologist	1231
A. B. Johnson....	Fire Mgt Officer ..	1241
J. T. Rudolph	Forester	1251
A. W. Currie.....	Parks-Rec Co-ord .	1281
		R. B. Adamson ... Engineer..... 1301
		D. J. Murray..... Lands Co-ord .. 1321
		K. G. Fenwick.... Geologist..... 1331

Dorion Trout Rearing Station, F. S. Watson	Phone (807) 857-2322
Regional Fire Centre, L. R. Hutchinson.....	Phone (807) 475-1405
Thunder Bay Forest Station, A. Wynia.....	Phone (807) 577-6409

THUNDER BAY DISTRICT

Box 5000, Thunder Bay 'F'	
Ont P7C 5G6... Phone (807) 475-1221	
R. A. Lessard	A/District Manager
B. G. Griffin.....	Administration
J. Gomm	Field Services
H. D. Howell	Fish & Wildlife
R. G. Klein.....	Forests
T. J. Leveque.....	Parks & Rec
J. W. Suttie.....	Lands

ATIKOKAN DISTRICT

108 Saturn Avenue, Atikokan	
Ont P0T 1C0 ... Phone (807) 597-6971	
A. M. Harjula.....	District Manager
B. A. Prince.....	Administration
R. N. Boyle	Engineering Services
B. H. Gibson.....	Fish & Wildlife
(vacant)	Forests
D. H. Elder.....	Lands & Parks
M. Horan	Fire Control

TERRACE BAY DISTRICT

Box 280, Terrace Bay,	
Ont P0T 2W0... Phone (807) 825-3205	
P. A. Strassburger	District Manager
G. K. Sidhu	Administration
R. R. Cockerline ..	Field Services
J. A. Chappel	Fish & Wildlife
T. B. Scott	Lands & Parks
Manitouwadge Work Centre	
Box 309, Manitouwadge	
Ont P0T 2C0 ... Phone (807) 826-3225	
R. Waito	Forests
C. J. Currie	Fire Control

GERALDTON DISTRICT

Box 640, Geraldton,	
Ont P0T 1M0... Phone (807) 854-1030	
E. H. Stone	District Manager
L. S. Morrow	Administration
E. P. Herrington ..	Field Services
W. J. Cook.....	Fish & Wildlife
D. Jovic	Forests
A. Hoshino	Lands & Parks

NIPIGON DISTRICT

Box 970, Nipigon	
Ont P0T 2J0 ... Phone (807) 887-2120	
G. O. Koistinen....	District Manager
M. Wilson	Administration
W. R. Doyon	Field Services
L. Townes	Fish & Wildlife
G. Marek	Forests
D. Bean	Lands & Parks

NORTHERN REGION

G. P. Elliott	Regional Director.....	Box 3000, 140 Fourth Ave., Cochrane,
L. H. Lingenfelter.	Deputy Reg. Director	Ont P0L 1C0 ... Phone (705) 272-4287
R. I. Thompson...	Admin Co-ord	D. W. Schafer Deputy Reg Director
J. Young	Biologist	60 Wilson Avenue, Timmins,
H. I. Mattson.....	Parks & Rec Co-ord	Ont. P4N 2S7 ... Phone (705) 267-1401
J. S. Dougan.....	Personnel Co-ord	W. E. Belisle Fire Management
C. Roswalka	Safety Officer	W. O. Mackasey ... Mineral Res Co-ord
4 Govt Rd E, Kirkland Lake		F. J. Wilson..... Lands Co-ord
Ont P2N 1A1... .	Phone (705) 567-5421	T. Isherwood..... Forester
R. C. Barty.....	Operations Manager	M. S. Paradis..... Engineer
Swastika Forest Station, L. J. Forcier		Phone (705) 642-3255
Hill Lake Trout Rearing Statoin, P. Graf.....		Phone (705) 544-2834

COCHRANE DISTRICT

Box 730, 2 Third Ave, Cochrane	
Ont P0L 1C0 ...	Phone (705) 272-4365
G. A. Wright	District Manager
G. Nantel.....	Administration
A. C. Hutchinson .	Field Services
W. Therriault.....	Outdoor Rec
J. Starr.....	Forests
F. Wright.....	Lands

CHAPLEAU DISTRICT

34 Birch Street, Chapleau	
Ont P0M 1K0... .	Phone (705)864-1710
R. Cleroux.....	District Manager
O. E. Crawford ...	Administration
J. R. Russell.....	Field Services
G. A. Black	Fish & Wildlife
P. K. Bidwell	Forests
J. P. Dick.....	Lands
G. W. Dingee.....	Parks & Rec

GOGAMA DISTRICT

Box 129, Gogama,	
Ont P0M 1W0 ..	Phone (705) 894-2000
C. Dionne	District Manager
R. Fink.....	Administration
M. Sitts	Field Services
W. Sinclair	Fish & Wildlife
C. Mason.....	Forests
D. Stewart.....	Lands & Parks

HEARST DISTRICT

631 Front St., Hearst	
Ont P0L 1N0... .	Phone (705) 362-4346
C. E. Emblin	District Manager
W. C. Trowsse ...	Adminstration
L. G. Woods	Field Services
S. St. Jules	Fish & Wildlife
D. Stillar	Forests..... 362-4264
M. J. Girouard....	Lands & Parks

KAPUSKASING DISTRICT

6 Government Road, Kapuskasing,	
Ont P5N 2W4 ..	Phone (705) 335-6191
R. G. Lightheart ..	District Manager
L. Keller.....	Administration
R. Carriere.....	Field Services
C. Jessop	Fish & Wildlife
K. Buck	Forests
D. Miller.....	Lands & Parks

KIRKLAND LAKE DISTRICT

Box 129, Swastika,	
Ont P0K 1T0 ...	Phone (705) 642-3222
J. E. Hamilton....	District Manager
G. E. Allick	Administration
R. Landry.....	Field Services
L. Chamberlin.....	Fish & Wildlife
B. I. Thompson... .	Forests
J. A. Colquhoun ..	Lands
W. B. Hill.....	Parks

TIMMINS DISTRICT

896 Riverside Drive, Timmins,	
Ont P4N 3W2 ..	Phone (705) 267-7951
A. F. Papineau ...	District Manager
V. A. Mathieu	Administration
D. E. Shewen.....	Field Services
T. Corbett	Fish & Wildlife
D. F. Jefferson ...	Forests
C. R. Biggar.....	Lands & Parks

MOOSONEE DISTRICT

Box 190, Moosonee,	
Ont P0L 1Y0 ...	Phone (705) 336-2987
S. Toole.....	District Manager
(vacant).....	Administration
G. F. McAuley....	Field Services
(vacant).....	Biologist

NORTHEASTERN REGION

W. G. Cleaveley . . .	Regional Director	199 Larch Street, Sudbury
D. J. Vance	Deputy Reg Director	Ont P3E 59P Phone (705) 675-4120
R. M. Christie	Deputy Reg Director	V. C. Miller Mining Recorder
J. C. Kindness	Admin Co-ord	J. C. Wilson. Mineral Res Co-ord
C. H. Bennett	Personnel	
A. W. McClellan	Cons Auth Prg-Supr	J. L. Canfield. Fire Mgmt Co-ord
(vacant)	Mining Lands Admin	J. R. Chevalier. Biologist
Sault Ste. Marie (705)		H. Walsh Engineer
M. V. St. Jules.	Mining Recrdr 254-6884	W. C. Stevens Forester
G. M. Bennett	Geologist 942-1414	E. A. Wright. Lands Co-ord
		C. Clark Parks-Rec Co-ord

Tarentorus Trout Rearing Station, D.V. Storms (S.S. Marie) Phone (705) 253-8953
 North Bay Trout Rearing Station, B.A. Marchant (North Bay) Phone (705) 663-2311
 Sandfield Fish Hatchery, G. Clarke (Espanola) Phone (705) 859-3340

SAULT STE. MARIE DISTRICT

Box 130, 69 Church St. S.S. Marie	
Ont P6A 5L5	Phone (705) 949-1231
J. H. Sellers.	District Manager
H. J. Smith	Administration
L. G. Bell	Fire Control
E. A. Pozzo	Fish & Wildlife
F. Janser.	Forests
I. J. Valentine	Lands
L. R. Davey	Parks

NORTH BAY DISTRICT

Box 3070, North Bay,	
Ont P1B 8K7	Phone (705) 474-5550
E. Rogers	District Manager
G. E. Lacelle	Administration
K. T. Fuller	Field Services
M. R. Wolfe.	Fish & Wildlife
D. E. Honeyborne.	Forests
R. V. Coulombe	Lands
H. J. Edmundson	Parks

WAWA DISTRICT

Box 1160, Wawa	
Ont P0S 1K0	Phone (705) 856-2396
E. E. Murphy	District Manager
Mrs. J. M. Kern	Administration
A. J. Bull	Field Services
E. R. Thomas	Fish & Wildlife
C. K. Sumi.	Forests
E. V. Uhler.	Lands
J. T. Stott	Parks

TEMAGAMI DISTRICT

Box 38, Temagami	
Ont P0H 2H0.	Phone (705) 569-3622
R. G. McGee	District Manager
W. W. Hicks	Administration

SUDBURY DISTRICT

Box 3500, Stn A, Sudbury	
Ont P3A 4S2	Phone (705) 522-7823
J. A. Simpson	District Manager
M. H. Jackson.	Administration
F. C. Shaver	Field Services
G. J. Haarmeyer.	Fish & Wildlife
D. R. Potvin.	Forests
M. K. Smith.	Lands
D. H. Brunette.	Parks

BLIND RIVER DISTRICT

Box 190, 62 Queen St, Blind River,	
Ont P0R 1B0	Phone (705) 356-2234
D. L. Hagar	District Manager
F. McWhinnie.	Administration
W. J. Davis	Field Services
S. B. Woodside.	Fish & Wildlife
C. F. Husk.	Forests
R. H. Wood	Lands
G. W. Connell	Parks

ESPAÑOLA DISTRICT

Box 1340, 148 Fleming St, Espanola	
Ont P0P 1C0	Phone (705) 869-1330
E. N. Arbuckle.	District Manager
Mrs. S. Catling	Administration
D. R. Hughson	Outdoor Rec
J. F. Christian.	Forests
D. C. Carnochan.	Lands

H. G. Smith	Field Services
W. P. Brook.	Forests
R. B. Sinclair.	Lands & Parks
S. T. Flemming.	Fish & Wildlife

ALGONQUIN REGION

K. K. Irizawa	Regional Director.....	Box 9000, Brendale Square, Huntsville, Ont P0A 1K0... Phone (705) 789-9611
A. E. Walroth.....	Deputy Reg Director	
J. H. Lever.....	Deputy Reg Director	
J. Carswell	Admin Co-ord	H. J. Henry Forester
C. W. Douglas....	Biologist	W. J. Logan..... Geologist
A. P. Stephen	Engineer	D. J. Johnstone .. Lands Co-ord
B. Petman.....	Fire Mgt Officer	J. A. van der Meer. Parks & Rec Co-ord

Pembroke Trout Rearing Station, A. G. Moore Phone (613) 687-5935
 Skeleton Lake Fish Hatchery, (vacant)..... Phone (705) 769-3731

PARRY SOUND DISTRICT

4 Miller Street, Parry Sound	
Ont P2A 1S8 ...	Phone (705) 746-4201
W. J. Lovering....	District Manager
G. F. Walter.....	Administration
C. R. Mumford ...	Field Services 5825
J. F. Gardner	Fish & Wildlife
G. C. Felton.....	Forests
J. A. Shallal	Parks
L. A. Connally....	Lands

BANCROFT DISTRICT

Box 500, Bancroft,	
Ont K0L 1C0 ...	Phone (613) 332-3940
M. P. Barker	District Manager
F. Buchan	Administration
M. F. Rush.....	Field Services
V. B. Collins	Fish & Wildlife
F. J. Walker.....	Forests
D. W. McLennan..	Parks
O. J. Fleming	Lands
H. Meyn.....	Geologist

ALGONQUIN PARK DISTRICT

Box 219, Whitney	
Ont K0J 2M0...	Phone (705) 637-2780
T. J. Millard	Park Supt, Dist. Man.
E. A. Dayment....	Administration
R. W. Stewart	Fish & Wildlife
D. F. George	Forests
J. E. Elliott	Lands
L. L. Powell	Alg Park Operations
B. A. Norris	Field Services

PEMBROKE DISTRICT

Box 220, Riverside Drive, Pembroke,	
Ont K8A 6X4 ...	Phone (613) 732-3661
L. J. Haas	District Manager
A. H. Plummer ...	Administration
C. R. Buske.....	Field Services
A. E. Armstrong ..	Fish & Wildlife
W. W. Wahl	Forests
E. N. McKenzie...	Lands & Mines
G. D. Yarranton...	Parks

BRACEBRIDGE DISTRICT

Box 1138, Bracebridge,	
Ont P0B 1C0... Phone (705) 645-5244	
H. P. Endress	District Manager
J. S. Purves.....	Administration
J. T. Matthews ...	Field Services
D. M. Brooks.....	Fish & Wildlife
G. K. Schultz.....	Forests
J. A. Bryant	Lands
R. G. Ellis	Parks

MINDEN DISTRICT

Minden,	
Ont K0M 2K0 ..	Phone (705) 286-1521
D. D. White	District Manager
R. E. Raby	Administration
T. C. Russell	Field Services
D. G. Atkinson ...	Fish & Wildlife
B. G. Cross	Forests
J. E. Dewey	Lands & Parks

THE LESLIE M. FROST NATURAL RESOURCES CENTRE

Dorset, Ont P0A 1E0. Phone (705) 766-2451.

G. A. Hamilton ...	Director
S. A. Williams....	A/Plan & Mgmt Supt
H. Curnow.....	Operations Supt
D. L. Lillow	Field Services
W. A. Chambers ..	Finance & Admin
T. G. Wright.....	Food Services
H. J. Barnhart....	Maint Foreman

Specialists:

D. C. Preston (acting)	Forestry
M. E. Buss.....	Fish & Wildlife
C. K. Macdonald..	Recreation
J. A. Stocking....	Lands
B. A. Martin.....	A/Visitor Services

EASTERN REGION

J. R. Oatway	Regional Director.....	Provincial Government Building,
D. E. Gage.....	Deputy Reg Director	Concession Road, Kemptville
S. R. Hamilton ...	Deputy Reg Director	Ont K0G 1J0 . . . Phone (613) 258-3413
W. B. Bowles	Admin Co-ord	
D. G. Watton.....	Biologist	W. G. Maslen Lands Co-ord
R. W. Beecher....	Cons Auth Prg-Spvr	W. P. Barber Parks & Rec Co-ord
J. R. Stork	Engineer	Dr. M. A. Klugman Mines Co-ord
P. E. Anslow	Forester	J. W. Lloyd Field Services Co-ord

Codrington Fish Hatchery, A. H. Draves	Phone (613) 475-2512
White Lake Fish Hatchery, K. Steele	Phone (613) 335-2115
Westport Fish Hatchery, G. E. Raine	Phone (613) 273-2106
G. Howard Ferguson Forest Station, A. J. Campbell	Phone (613) 258-3413

TWEED DISTRICT

Metcalfe Street, Tweed, Ont K0K 3J0 . . .	Phone (613) 478-2330
W. Vonk.....	District Manager
G. J. O'Hearn	Administration
W. F. Caverly.....	Lands
J. C. Williamson..	Outdoor Rec
W. M. Fasken	Forests
W. J. Miller	Field Services
Dr. P. W. Kingston	Res Geologist

CARLETON PLACE DISTRICT

Lanark Office, Box 239, Lanark, Ont K0G 1K0... . .	Phone (613) 259-2942
J. R. Bailey	District Manager
G. Sanderson	Administration
J. D. McCready... .	Forests
D. G. Kennedy....	Field Services
K. J. Schonauer ..	Parks
R. H. Jones	Fish & Wildlife
R. M. Rogers.....	Lands
M. A. MacDonald .	Mineral Resources

CORNWALL DISTRICT

Box 1749, 113 Amelia St. Cornwall Ont K6H 5V7... . .	Phone (613) 933-1774
J. R. Morin.....	District Manager
W. J. Humphrys ..	Administration
P. A. McDonald... .	Fish & Wildlife
B. W. Warwick ...	Forests
K. E. Green	Field Services, Parks
B. W. McCue.....	Lands

NAPANEE DISTRICT

1 Richmond Blvd. Napanee Ont K7R 3S3 . . .	Phone (613) 354-2173
R. G. Bailey.....	District Manager
R. A. Armstrong ..	Administration
A. Denys	Forests, Field Serv
R. G. Baldwin	Fish & Wildlife
R. Griffiths	Lands
J. C. Matheson....	Parks
S. Thatcher	Mineral Resources

BROCKVILLE DISTRICT

101 Water ST West, Brockville Ont K6V 5Y8 . . .	Phone (613) 342-8524
C. A. Haxell.....	District Manager
D. G. Gilmer	Administration
G. L. Penney.....	Fish & Wildlife
H. DeVries.	Forests
G. Tabobondune .	Field Services & Lands & Parks

CENTRAL REGION

R. J. Burgar	Regional Director ..	295	10670 Yonge Street, Richmond Hill		
A. D. Latornell	Dep Reg Director ..	297	Ont L4C 3C9	Phone (416) 884-9203	
F. G. Shaw	Dep Reg Director ..	290	M. Narain	Geologist	
H. Tjoelker	Admin Co-ord	208	L. G. D. Thompson	Mines Co-ord	232
J. B. Dawson	Biologist	282	M. G. Lewis	Service Engineer	216
J. J. McFadden	Cons Auth Co-ord ..	206	J. T. Griffin	Parks-Rec Co-ord	299
R. N. Staley	Forester	289	J. F. Gosnell	Lands Co-ord	234

Midhurst Forest Station, Midhurst, C. R. Groves	Phone (705) 728-6599
Orono Forest Station, Orono, W. R. Bunting	Phone (416) 983-9147
Ontario Tree Seed Plant, Angus, B. D. Swaile	Phone (705) 424-5311
Deer Lake Fish Hatchery, R.R. 1, Havelock, G. T. Cation	Phone (705) 778-3391
Ringwood Fish Hatchery, C. N. Core	Phone (416) 640-6204

MAPLE DISTRICT

Maple, Ont L0J 1E0	Phone (416) 832-2761	
I. B. Earl	District Manager	203
W. B. Pottelberg	Administration	300
D. M. Hogg	Fish & Wildlife	211
C. D. Simpson	Lands	208
M. Charbonneau	Parks	240
Si Dae Kim	Forests, Fld Serv	224
R. N. Kervin	Mineral Resources	210

HURONIA DISTRICT

Midhurst, Ont L0L 1X0	Phone (705) 728-2900
W. D. Mansell	District Manager
D. H. Poff	Administration
A. W. Smith	Fish & Wildlife
R. O. Brandes	Forests
D. R. MacArthur	Services
J. R. Winters	Parks
W. D. Mansell	Wasaga Project

NIAGARA DISTRICT

Box 1070, Highway No. 20, Fonthill, Ont L0S 1E0	Phone (416) 892-2656\$
J. E. Dickenson	District Manager
A. J. Vos	Administration
E. A. Kraker	Forests, Fld Serv
P. J. Drysdale	Outdoor Recreation
J. Z. Fraser	Lands & Minerals

LINDSAY DISTRICT

322 Kent St West, Lindsay, Ont K9V 4T7	Phone (705) 324-6121
C. R. Gray	District Manager
A. V. Kaufman	Administration
P. A. Smith	Fish & Wildlife
T. Tworzyanski	Forests, Fld Serv
L. C. Selby	Lands & Minerals
R. W. Allen	Parks

CAMBRIDGE DISTRICT

Box 2186, Cambridge, Ont N3C 2W1	Phone (519) 658-9355
W. R. Catton	District Manager
B. J. DeGunst	Administration
G. M. Tupling	Fish & Wildlife
S. Yorgan	Forest Mgmt
B. L. Houck	Parks
D. A. Routly	Lands & Minerals

SOUTHWESTERN REGION

N. D. Patrick	Regional Director.....	1106 Dearness Drive, London, Ont N6E 1N9... Phone (519) 681-5350
J. D. Parker	Deputy Reg Director	
V. G. Milne	Deputy Reg Director	
D. W. Munch.....	Admin Co-ord	P. A. Palonen Mineral Resources
H. A. Orr	Biologist	J. A. Fingland Lands Co-ord
R. J. McClure	Cons Auth Prg-Spvr	(vacant)..... Parks & Rec Co-ord
P. H. Crook	Engineer	
E. F. Johnston ...	Forester	

Chatsworth Fish Hatchery, P. H. Hartmann	Phone (519) 794-2340
Normandale Fish Hatchery, W. A. Hooper.....	Phone (519) 426-3142
St. Williams Forest Staton, R. E. Laupert.....	Phone (519) 586-3576
Petroleum Resources Lab, London, R. E. Booth-Horst	Phone (519) 433-8431

CHATHAM DISTRICT

Box 1168, 435 Grand Ave West, Chatham, Ont N7M 5L8... Phone (519) 354-7340	
W. L. McNab..... District Manager	
H. Lehmann Admin, Eng Services	
H. Manson Fish & Wildlife	
K. Yaraskavitch .. Forests	
A. D. Carr. Parks	
H. W. Rowe..... Lands, Min Resources	
G. Crewe Petroleum Resources	

OWEN SOUND DISTRICT

611 Ninth Ave East, Owen Sound, Ont N4K 3E4... Phone (519) 376-3860	
R. W. Tippett..... District Manager	
M. Gobeil Administration	
S. A. Munroe..... Fish & Wildlife	
W. J. Lambie..... Forests	
R. J. Manley Lands, Min Resources	
P. H. Baxter..... Parks	
E. G. Walker Fire, Eng Services	

AYLMER DISTRICT

353 Talbot Street West, Aylmer Ont N5H 2S8... Phone (519) 773-9241	
M. G. Lewis..... District Manager	
D. L. Clarke Administration	
G. R. Austin Fish & Wildlife	
W. C. Gilmore.... Forest Resources	
D. G. Ward..... Parks, Lands Services	
(vacant)..... Mineral Resources	

SIMCOE DISTRICT

645 Norfolk Street North, Simcoe, Ont N3Y 3R2... Phone (519) 426-7650	
M. F. McKenzie... District Manager	
A. McGarrity Administration	
J. M. Collins Parks, Fish & Wildlife	
D. A. Scott. Forests	
W. L. Edwards.... Lands, Eng Services, Mineral Resources	

WINGHAM DISTRICT

R.R. 5, Wingham Ont N0G 2W0 .. Phone (519) 357-3131	
J. L. Hamill District Manager	
M. V. J. Sollars ... Administration	
W. A. Creighton .. Parks, Fish, Wildlife	
H. R. Lancaster... Forests	
(vacant)..... Lands, Field Services	
(vacant)..... Mineral Resources	

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Statistics 1983



Ministry of
Natural
Resources

Hon. Alan W. Pope,
Minister

John R. Sloan
Deputy Minister

STATISTICS

1983

A statistical supplement to the Annual Report of the Minister of Natural Resources for the year ending March 31, 1983.

\$2.00



Ministry of
Natural
Resources

Ontario

Hon. Alan W. Pope
Minister
John R. Sloan
Deputy Minister

Statistical Reports

Prepared by Branches

3 **Ministry of Natural Resources**

- 4 Office of Deputy Minister
- 5 Ministry Regions and Districts

6 **Forest Resources Group**

- 6 Forest Resources Branch
- 7 Ontario Tree Improvement and Forest Biomass Institute
- 19 Timber Sales Branch

30 **Mineral Resources Group**

- 30 Ontario Geological Survey
- 35 Mineral Resources Branch
- 40 Mining Taxation and OMEP Office

43 **Outdoor Recreation Group**

- 43 Wildlife Branch
- 49 Parks and Recreational Areas Branch
- 61 Fisheries Branch

73 **Lands and Waters Group**

- 73 Land Management Branch
- 80 Surveys and Mapping Branch
- 83 Office of Indian Resource Policy
- 84 Conservation Authorities and Water Management Branch

86 **Aviation and Fire Management Centre**

95 **Administration Division**

- 96 Communications Services Branch
- 97 Personnel Services Branch
- 100 Administrative Services Branch
- 102 Legal Services Branch
- 108 Mining and Lands Commissioner

110 **Finance, Planning and Evaluation Group**

- 110 Financial Services Branch
- 114 Internal Audit Services Branch
- 115 Budget and Program Evaluation Branch

116 **Regions and Districts**

- 116 Northwestern Region
- 117 North Central Region
- 118 Northern Region
- 119 Northeastern Region
- 120 Algonquin Region
- 121 Eastern Region
- 122 Central Region
- 123 Southwestern Region

MINISTRY OF NATURAL RESOURCES★

Hon. Alan W. Pope	Minister of Natural Resources
John R. Sloan	Deputy Minister
G. A. McCormack.....	Assistant Deputy Minister, Northern Ontario.★★★ Northwestern Region North Central Region Northern Region Northeastern Region Aviation and Fire Management Centre
R. J. Burgar	Assistant Deputy Minister, Southern Ontario★ Algonquin Region Eastern Region Central Region Southwestern Region
M. Mogford	Assistant Deputy Minister, Administration
G. H. Ferguson, Q.C	MINISTERIAL AGENCIES Mining and Lands Commissioner I. D. Bird
	General Manager, Algonquin Forest Authority

★ Main Office in Whitney Block, Parliament Buildings, Toronto, Ontario M7A 1W3

★★ Box 5000, 435 James St. South, Thunder Bay 'F', Ontario P7C 5G6

★★★ Maple, Ontario L0J 1E0

OFFICE OF DEPUTY MINISTER

Room W-6320, Main Office. Telephone (416) 965-2704

Deputy Minister.....	John R. Sloan	W-6320..... 2704
Administrative Assistant.....	Miss A. Klassen.....	W-6320..... 5873
Science Adviser and Research Co-ordinator.....	Dr. M. F. Walmsley	W-6350..... 5720

POLICY CO-ORDINATION SECRETARIAT

Director.....	R. M. Monzon	W-6547..... 8422
Secretary	Mrs. M. Forbes	W-6540..... 8422
Outdoor Recreation Policy Officer.....	D. W. Simkin	W-6547..... 6712
Forest Resources Policy Officer	E. E. Multamaki.....	W-6549..... 6712
Mineral Resources Policy Officer	Ms. R. E. Booth-Horst.....	W-6549..... 6712
Lands and Waters Policy Officer.....	L. A. Douglas.....	W-6545..... 6371
Strategic Planning Officer.....	J. D. Ross	W-6550..... 6371
Special Projects Officer	J. M. Kearns	W-6550..... 6371
Land Use Planning Supervisor.....	M. S. Millar.....	W-3440..... 2899
Plan Input and Review Specialist.....	J. C. Slot	W-3440..... 2899
Environmental Planner	R. D. La Prairie	W-3440..... 2899
Planning Specialist.....	Vacant.....	W-3440..... 2899

MINISTRY REGIONS AND DISTRICTS

Areas in Square Kilometres★

NORTHWESTERN REGION

Dryden.....	11 961
Fort Frances.....	10 847
Ignace	11 463
Kenora.....	14 188
Red Lake.....	64 105
Sioux Lookout.....	<u>112 097</u>
Pt. Rainy Lake.....	1 222
Pt. Lake of the Woods	<u>2 427</u>
Total, Region.....	<u>228 310</u>

NORTHERN REGION

Chapleau.....	23 602
Cochrane.....	30 715
Gogama	7 752
Hearst.....	25 245
Kapuskasing	21 225
Kirkland Lake	13 312
Moosonee.....	<u>215 741</u>
Timmins.....	<u>7 899</u>
Pt. Lake Abitibi.....	<u>790</u>
Total, Region.....	<u>346 281</u>

ALGONQUIN REGION

Algonquin Park.....	9 376
Bancroft.....	4 239
Bracebridge	6 454
Minden	4 745
Parry Sound	7 187
Pembroke.....	<u>7 306</u>
Pt. Georgian Bay.....	<u>3 875</u>
Total, Region.....	<u>43 182</u>

SOUTHWESTERN REGION

Alymer	6 731
Chatham.....	7 389
Owen Sound	7 817
Simcoe	2 818
Wingham	<u>6 889</u>
Pt. Lake Huron and Lake Erie.....	<u>30 950</u>
Pt. Lake St. Clair	<u>673</u>
Total, Region.....	<u>62 268</u>

NORTH CENTRAL REGION

Atikokan	11 321
Geraldton	112 784
Nipigon	25 574
Terrace Bay	12 673
Thunder Bay	<u>28 451</u>
Lake Nipigon	<u>5 006</u>
Pt. Lake Superior	<u>16 017</u>
Total, Region	<u>211 826</u>

NORtheASTERN REGION

Blind River	9 516
Espanola	9 523
North Bay	10 668
Sault Ste. Marie	7 912
Sudbury	12 725
Temagami	6 856
Wawa	<u>22 535</u>
Pt. Lake Huron and Lake Superior	<u>25 298</u>
Lake Nipissing	<u>816</u>
Lake Wahnapitae	<u>145</u>
Total, Region	<u>105 994</u>

EASTERN REGION

Brockville	3 496
Carleton Place	6 277
Cornwall	5 594
Napanee	6 537
Tweed	<u>6 605</u>
Pt. Lake Ontario	<u>4 333</u>
Total, Region	<u>32 842</u>

CENTRAL REGION

Cambridge	7 141
Huronia	6 550
Lindsay	6 856
Maple	4 812
Niagara	<u>2 670</u>
Pt. Lake Ontario and Lake Erie	<u>8 109</u>
Lake Simcoe	<u>741</u>
Total, Region	<u>36 879</u>

TOTALS

47 Districts	968 179
12 Lakes	<u>100 403</u>
Area of Ontario	<u>1 068 582</u>

FOREST RESOURCES GROUP

Room W-3623, Main Office

Telephone (416) 965-2785

Executive Co-ordinator.....	K. A. Armson	W-3624.... 965-4319
Secretary	Mrs. I. Hart.....	W-3624..... 5-4319
Chief Forester.....	Vacant.....	W-3621..... 5-3040
Chief Forest Economist.....	L. S. Lambert	W-3627..... 5-2785

FOREST RESOURCES BRANCH

Director.....	W. K. Fullerton	W-3646..... 5-2787
FOREST PRODUCTION & CONTROL SECTION		
Forest Production & Control Section Spvr.....	C. J. Heeney.....	W-3649..... 5-2575
Tree Seed & Forest Genetics Unit Spvr.....	R. M. Rauter	W-3634..... 3-1334
Forest Production Policy Unit Spvr.....	J. Cary	W-3651..... 5-2575
Silviculture Information Assessment & Development Specialist.....	M. Chaudhry	W-3652..... 5-2575
Forest Production Analyst.....	J. Cooper	W-3650..... 5-2575
Analyst & Contract Specialist	A. L. Wells	W-3629..... 5-2785
Private Land Forestry Unit Spvr.....	R. N. Staley	W-3630..... 5-2785
Private Land Forestry Incentives Co-ordinator.	G. Sinclair	W-3632..... 5-2785
Stock Production Unit Spvr.....	K. Reese	W-3655..... 5-2575
Soil & Plant Analyst.....	V. Sadreika	W-3653..... 5-2575
Tree Distribution Co-ordinator.....	H. Tiemann	W-3654..... 5-2575
Silviculture Data Controller.....	R. K. Crawford	W-3648..... 5-2575
Forest Practices Unit Spvr.....	G. Brown.....	W-3643..... 5-0378
Mechanization		
Silviculture Equipment Development Co-ordinator	A. Citro.....	Maple 832-2761
Design Assistant	N. Mishrigi	Maple 2761
Equipment Developer	R. Foote	Maple 2761
PEST CONTROL SECTION		
Pest Control Section Spvr.....	B. McGauley	Maple 2761
Forest Entomologist	C. S. Kirby	Maple 2761
Herbicide Specialist.....	Dr. R. A. Campbell	Maple 2761
Pesticide Applications Specialist.....	S. A. Nicholson	Maple 2761

ONTARIO TREE IMPROVEMENT AND FOREST BIOMASS INSTITUTE

Maple, Ontario L0J 1E0

Telephone (416) 832-2761

General Manager
 Executive Officer
 Technology Transfer Specialist

D. P. Drysdale 832-2761
 D Morgan 2761
 D Bates 2761

TREE IMPROVEMENT AND BIOMASS SECTION

Principal Scientist.....

Research Scientist Tree Breeding

- Spruce.....

Research Scientist Tree Breeding

- Hard Pine

Forest Biomass Unit Leader

Research Scientist Upland Silviculture.....

Biotech Research Scientist.....

Research Scientist

Research Scientist Tree Seed

Nursery/Greenhouse Arboreta Unit Leader.....

Research Scientist

Dr. L. Zsuffa 2761

J V Hood 2761

Dr. G. Buchert 2761

H. Anderson 2761

P. Jaciw 2761

R M Ho 2761

Dr D C F Fayie 2761

D. A. Skeates 2761

K. Bennett 2761

D. Weingartner Thunder Bay (807) 767-1607

FOREST ECOLOGY AND SILVICULTURE SECTION

Principal Scientist.....

Site & Productivity Unit Leader

Research Scientist Mensuration

Research Scientist Tree Nutrition

Scientist Tree Nutrition

Biomathematician

Research Scientist Boreal Mixed Woods

Research Scientist Plant Stock

Silviculture and Tree Biology Unit Leader

Silviculture Specialist

Dr D Burger 2761

G Pierpoint 2761

A. F. Beckwith 2761

R. H. Leech 2761

Y T Kim 2761

Dr F L Raymond 2761

G.B. MacDonald Thunder Bay (807) 767-1607

S. Colombo 2761

Dr. C. Glerum 2761

G Stroempl 2761

B. Hutchison (705) 737-5510

M. McLean (705) 766-2671

K. M. McLain (807) 767-1607

Dr. A. Gordon (705) 949-9461

Midhurst Research Unit
 Midhurst, Ontario
 L0L 1X0

Algonquin Region Research Unit
 Box 190
 Dorset, Ontario
 P0A 1E0

Northern Forest Research Unit
 Box 2960
 Thunder Bay, Ontario
 P7B 5G5

Forest Biology Laboratory
 Box 490
 Sault Ste. Marie, Ontario
 P6A 5M7

PLANTING STOCK DISTRIBUTION

Bare Root Nursery Stock

conifers	60,512,110
hardwoods	3,148,317
Total	63,660,427

Container Stock

ministry facilities	10,999,088
contract facilities	5,466,142
Total	16,465,230

GRAND TOTAL

80,125,657

FOREST TREE PRODUCTION BY MINISTRY NURSERIES

Number of trees in years ending March 31

Year	Bare Root	Container		Total
		Ministry	Contract	
1973	68,161,039	2,862,114	,	71,023,153
1974	65,362,395	3,402,228	,	68,764,623
1975	59,794,450	3,148,406	,	62,942,856
1976	50,944,733	5,346,866	,	56,291,599
1977	45,981,122	4,291,764	,	50,272,886
1978	48,291,842	5,461,375	,	53,753,217
1979	52,928,125	5,487,210	,	58,415,335
1980	61,453,461	7,944,817	,	69,398,278
1981	65,360,243	10,496,839	,	75,857,082
1982	69,448,150	13,950,538	,	83,398,688
1983	63,660,427	10,999,088	5,466,142	80,125,657

USE OF NURSERY STOCK IN YEAR ENDING MARCH 31, 1983

Use	Bare Root	Container		Total
		Ministry	Contract	
Crown land & Agreement				
Forest	41,644,288	10,999,088	5,466,142	58,109,518
WIA	9,182,277	,	,	9,182,277
Other Private Land	12,032,896	,	,	12,032,896
Education or Science	800,966	,	,	800,966
Miscellaneous	,	,	,	,
TOTAL	<u>63,660,427</u>	<u>10,999,088</u>	<u>5,466,142</u>	<u>80,125,657</u>

TREE PRODUCTION BY SPECIES

Number of trees in years ending March 31

Species	1979	1980	1981	1982	1983
White Spruce	13,704,591	16,687,027	14,384,928	16,394,578	16,396,972
Black Spruce	13,170,734	11,800,627	17,365,106	17,155,688	18,847,802
Red Pine	8,627,330	8,215,238	8,534,677	7,493,071	6,707,858
Jack Pine	12,831,439	18,832,062	19,143,238	25,830,821	21,744,405
White Pine	3,694,571	5,181,787	6,431,427	6,451,959	7,595,781
White Cedar	493,254	1,461,566	2,381,005	2,806,775	2,984,424
Scotch Pine	893,316	1,483,794	1,500,375	1,545,425	906,075
Silver Maple	584,853	423,958	563,229	240,785	502,402
Norway Spruce	902,881	1,158,639	1,367,267	1,093,919	1,021,589
Carolina Poplar	487,769	532,077	583,863	532,351	404,549
Black Walnut	341,587	301,305	459,275	364,000	333,125
White Ash	505,194	222,264	256,239	283,281	57,218
European Larch	154,055	175,874	489,290	275,202	164,918
Yellow Birch	205,827	41,440	80,144	116,400	20,000
Red Oak	398,192	499,244	258,284	316,191	178,717
Black Locust	212,583	190,235	203,250	164,475	217,950
Tamarack	28,238	255,211	143,777	309,506	434,983
Hemlock	130,456	529	68,746	272	14,725
Cottonwood	13,325	—	53,725	—	—
Hybrid Poplar					
Rooted	61,350	110,839	112,422	108,484	53,042
Unrooted	515,608	943,821	818,530	1,061,811	1,079,038
Japanese Larch	7,000	253,366	156,965	293,631	129,350
Aspen, unrooted	—	91,948	—	—	7,880
Other Species	451,182	535,427	501,320	560,063	322,854
Total	58,415,335	69,398,278	75,857,082	83,398,688	80,125,657

TREES SUPPLIED FOR PLANTING ON PRIVATE LANDS

in years ending March 31

County, District or Regional Municipality	1979	1980	1981	1982	1983
Algoma	234,705	281,900	305,955	190,825	251,205
Brant	142,750	207,300	222,850	129,055	122,125
Bruce	119,385	282,953	194,197	278,020	138,851
Cochrane	482,720	560,600	705,480	1,072,250	536,825
Dufferin	325,915	486,250	507,385	470,585	307,250
Dundas	49,475	129,705	125,453	68,475	73,972
Durham★★	378,775	480,901	479,450	538,150	487,200
Elgin	170,320	207,066	208,435	209,899	189,162
Essex	128,450	189,420	208,541	188,513	199,307
Frontenac	85,480	115,695	136,700	193,486	112,800
Glengarry	71,025	76,675	190,742	166,500	136,350
Grey	453,124	427,215	524,400	503,740	487,980
Haldimand	241,075	298,566	524,307	74,190	89,475
Haliburton	45,125	73,200	48,100	33,800	26,800
Halton	105,225	250,970	274,165	137,575	105,385
Hastings	126,125	172,443	169,042	317,973	178,422
Huron	234,575	185,406	273,100	198,264	147,279
Kenora	374,400	102,300	273,900	189,175	519,125
Kent	135,500	137,535	303,225	233,185	320,655
Lambton	87,990	178,900	192,941	239,577	174,693
Lanark	67,137	199,312	260,175	203,900	155,000
Leeds & Grenville	139,589	369,040	297,361	333,375	249,795
Lennox & Addington ...	58,775	126,175	107,775	128,350	154,095
Manitoulin	10,550	55,500	27,400	15,100	16,350
Middlesex	231,282	340,788	616,575	433,402	440,800
Muskoka	86,800	66,250	73,250	68,150	57,845
Niagara	235,858	299,162	366,493	365,481	211,336
Nipissing	130,500	98,125	41,925	60,770	75,455
Norfolk	2,610	32,600	1,100	411,302	431,250
Northumberland★★	220,839	330,345	326,280	530,657	423,148
Ontario★★	2,062	3,008	—	2,610	1,700
Ottawa-Carleton	101,225	396,699	300,615	252,310	160,530
Oxford	165,728	232,888	275,075	197,278	175,996
Parry Sound	147,275	273,600	338,250	188,650	50,625
Peel	233,487	295,543	289,669	265,910	188,300
Perth	83,198	200,053	177,450	135,535	169,190
Peterborough	228,231	195,967	202,400	133,920	148,111
Prescott	46,350	225,425	123,875	142,825	250,400
Prince Edward	75,070	79,000	86,825	71,650	72,100
Rainy River	51,625	83,675	97,325	101,750	13,650
Renfrew	339,094	262,425	420,025	229,550	282,925
Russell	61,600	182,200	207,150	174,655	128,150
Simcoe	837,865	1,044,115	1,268,225	1,143,650	1,006,995

★★Totals do not reflect formation of the Regional Municipality of Durham

County, District or Regional Municipality	1979	1980	1981	1982	1983
Stormont	36,225	84,518	138,703	50,100	60,500
Sudbury	254,612	372,482	465,222	415,335	590,029
Thunder Bay	141,875	133,675	418,325	113,325	62,975
Timiskaming	18,500	38,550	40,300	12,250	23,400
Victoria	154,615	250,207	283,922	278,930	204,725
Waterloo	118,450	267,950	170,052	111,100	86,575
Wellington	528,850	673,675	759,815	709,700	798,607
Wentworth	250,630	365,465	365,135	324,423	299,198
York	525,135	603,273	568,025	410,582	438,280
Durham Regional Municipality	300	—	1,550	150	—
Total	9,405,081★	13,026,690★	14,984,610★	13,449,912★	12,032,896★

★Excluding W.I.A.

FOREST AREAS MANAGED BY THE MINISTER

in hectares at March 31, 1983

Agreement Holders	Term of Agreement	Added 1982-83	Released 1982-83	Total
GOVERNMENT OF CANADA				
National Capital Commission	Apr. 1961 - Mar. 2011	.....	.....	★ 1,704.17
22 CONSERVATION AUTHORITIES				
Ausable Bayfield	Apr. 1964 - Mar. 2004			1,773.78
Cataraqui Region	Apr. 1971 - Mar. 1996			342.32
Catfish Creek	Apr. 1962 - Mar. 2002			254.55
Crowe Valley	Jan. 1963 - Dec. 2003			80.94
Ganaraska	Apr. 1960 - Mar. 2000			3,496.25
Grand River	Apr. 1961 - Mar. 2000			1,657.75
Lakehead Region	May. 1958 - Apr. 2008	.....	.....	670.86
Long Point Regional	Apr. 1960 - Mar. 2000	31.04	.....	2,591.37
Lower Thames Valley	Apr. 1964 - Mar. 1984	.....	.....	121.41
Maitland Valley	Apr. 1955 - Mar. 2005	.....	.....	343.59
Metropolitan Toronto & Region	Apr. 1975 - Mar. 2000	.....	.....	★ 785.91
Moira River	Apr. 1978 - Mar. 2000	.....	.....	6,807.28
Napanee Region	Oct. 1954 - Oct. 2004	.....	.....	2,732.50
Niagara Peninsula	June 1963 - Mar. 2003	.....	.....	75.27
North Grey Region	June 1958 - June 2008	.....	.....	2,882.73
Otonabee Region	Apr. 1976 - Mar. 2002	.....	.....	1,465.07
Raison Region	Apr. 1971 - Mar. 2001	.....	.....	137.60
Sauble Valley	Apr. 1960 - Mar. 2002	.....	.....	1,547.55
Saugeen Valley	Apr. 1960 - Mar. 2002	28.33	.....	★ 5,257.58
South Nation River	Apr. 1975 - Mar. 2000	.....	.....	3,072.90
St. Clair Region	May. 1965 - Apr. 1985	.....	.....	60.70
Upper Thames River	Apr. 1961 - Mar. 2001	.....	.....	1,363.32
Sub Total		59.37		37,521.24

★Reconciliation adjustment

Agreement Holders	Term of Agreement	Added 1982-83	Released 1982-83	Total
9 TOWNSHIPS				
Bonfield	Apr. 1952 - Mar. 1982	.....	.....	24.28
Charlottenburgh	Apr. 1975 - Mar. 1995	.....	.....	77.70
Cramahe	Apr. 1963 - Mar. 2003	.....	.....	65.56
Cumberland	July 1980 - June 2030	.....	.....	371.69
Darlington	Apr. 1971 - Mar. 1991	.....	.....	56.66
Machar	Sept. 1963 - Aug. 1993	.....	.....	36.42
Mosa	Apr. 1963 - Mar. 2003	.....	.....	58.28
Torbolton	Mar. 1953 - Mar. 1983	.....	.....	174.34
Williamsburg	Apr. 1962 - Mar. 2002	.....	.....	161.88
Sub Total		.....	.....	1,026.81
19 COUNTIES				
Brant	Apr. 1960 - Mar. 2000	.....	.....	40.19
Bruce	Apr. 1962 - Mar. 2002	.....	.....	★ 6,106.18
Dufferin	Apr. 1971 - Mar. 1991	.....	.....	1,019.24
Grey	Apr. 1960 - Mar. 2000	.....	.....	3,482.50
Huron	Apr. 1960 - Mar. 2000	.....	.....	662.32
Kent	Apr. 1960 - Mar. 2000	.....	.....	30.51
Lanark	Apr. 1980 - Mar. 2000	99.15	.....	3,709.43
Leeds & Grenville	Apr. 1975 - Mar. 1995	150.95	.....	5,802.30
Lennox & Addington	Apr. 1960 - Mar. 2000	.....	.....	473.05
Middlesex	Apr. 1960 - Mar. 2000	8.09	.....	980.98
Northumberland	★★Apr. 1981 - Mar. 2001	.....	.....	2,568.43
Oxford	Apr. 1961 - Mar. 2000	.....	.....	342.07
Peterborough	★★Apr. 1981 - Mar. 2001	.....	.....	80.94
Prescott & Russell	May 1960 - Apr. 2000	.....	.....	★ 10,540.75
Renfrew	Apr. 1960 - Mar. 2000	.....	1.74	6,498.46
Simcoe	Apr. 1960 - Mar. 2000	40.47	0.96	10,600.37
Stormont, Dundas & Glengarry	Apr. 1975 - Mar. 2000	33.39	.....	3,053.62
Victoria	Nov. 1976 - Mar. 2000	.....	.....	3,794.79
Wellington	Apr. 1963 - Mar. 1983	.....	.....	521.41
Sub-Total		332.05	2.70	60,307.56
6 REGIONAL MUNICIPALITIES				
Durham	May 1960 - Apr. 1980	.....	.....	591.06
Halton	Apr. 1976 - Mar. 2000	.....	.....	632.31
Hamilton-Wentworth	Apr. 1961 - Mar. 1981	.....	.....	391.19
Ottawa-Carleton	Apr. 1974 - Mar. 2004	326.59	.....	5,484.23
Waterloo	Apr. 1976 - Mar. 2001	.....	.....	★ 259.49
York	Apr. 1977 - Mar. 2007	.....	.....	2,030.52
Sub-Total		326.59	.....	9,388.80
INDUSTRY				
Domtar	Apr. 1974 - Mar. 1999	.....	.....	900.04
TOTAL 58 Managed Forest Areas		718.01	2.70	110,848.62
★ Reconciliation adjustment				
★★ Replacement agreement				

SILVICULTURAL OPERATIONS

Classification of cutover forest land in year ending March 31, 1983

Areas in hectares

	Crown Lands	Forest Management Agreements	Total Crown Lands	Agreement Forests	W.I.A.	Other Patent Lands	Total
Harvest Cut, evenaged management	126,219	42,411	168,630	2,181	151	29,375	200,337
Harvest Cut unevenaged management	9,561	—	9,561	219	599	12,475	22,584
TOTAL	135,780	42,411	178,191	2,400	750	41,850	223,191

SUMMARY OF SILVICULTURAL OPERATIONS

Areas in Hectares in year ending March 31, 1983

	Crown Lands	Forest Management Agreements	Total Crown Lands	Agreement Forests	W.I.A.	Sub-Total	Other Patent Lands	Total
REGENERATION								
Planting Bare Root Stock	16,311	4,961	21,272	330	5,349	26,951	3,327	30,278
Planting Container Stock	3,982	3,323	7,305	97	119	7,521	43	7,564
Planting Hybrid Poplar Cuttings	19	—	19	116	55	190	8	198
Seeding	22,251	7,606	29,857	—	—	29,857	134	29,991
Scarification	817	—	817	—	4	821	—	821
Strip Cutting	1,171	274	1,445	1	—	1,446	—	1,446
Seed Tree Cutting	2,307	908	3,215	6	—	3,221	339	3,560
Shelterwood Cutting	9,431	—	9,431	6	—	9,437	48	9,485
Clear Cutting	5,991	1,561	7,552	42	4	7,598	1,826	9,424
Total	62,280	18,633	80,913	598	5,531	87,042	5,725	92,767
RE-TREATMENT								
	2,256	97	2,353	257	1,623	4,233	59	4,292
TENDING								
Hand Cleaning	5,752	92	5,844	216	654	6,714	24	6,738
Herbicide Spraying	10,633	15,532	26,165	674	2,791	29,630	2,205	31,835
Thinning Improvement Cuts	6,563	135	6,698	1,701	2,757	11,156	2,480	13,636
Pruning	756	—	756	852	411	2,019	1	2,020
Fertilization Drainage	87	—	87	161	29	277	—	277
Total	23,791	15,759	39,550	3,604	6,642	49,796	4,710	54,506
SITE PREPARATION								
	47,393	20,190	67,583	601	2,077	70,261	737	70,998
MARKING								
	37,229	—	37,229	3,217	4,134	44,580	9,373	53,953
TOTAL AREA TREATED								
	170,693	54,582	225,275	8,020	18,384	251,679	20,545	272,224

CROWN LANDS TREATED

Areas in hectares in years ending March 31

Silvicultural Operations	1979	1980	1981	1982	1983
REGENERATION					
Planting Bare Root Stock . . .	18,529	19,830	18,786	22,561	21,272
Planting Container Stock . . .	2,280	3,860	4,829	6,357	7,305
Planting Hybrid Poplar Cuttings . . .			24	31	19
Seeding	23,548	24,251	47,296	27,869	29,857
Scarification	4,013	2,392	3,241	1,653	817
Strip Cutting	2,580	2,058	1,562	2,879	1,445
Seed Tree Cutting	6,325	7,339	3,934	3,100	3,215
Shelterwood Cutting	10,669	9,867	9,794	7,738	9,431
Clear Cutting	2,771	2,266	6,202	4,909	7,552
Total	70,715	71,863	95,668	77,097	80,913
RE-TREATMENT	3,435	2,072	7,981	2,263	2,353
TENDING					
Hand Cleaning	4,855	5,326	4,481	3,686	5,844
Herbicide Spraying	16,955	13,156	25,404	19,668	26,165
Thinning Improvement Cuts	12,853	8,511	8,209	6,679	6,698
Pruning	661	695	853	618	756
Fertilization Drainage	188	172	166	163	87
Total	35,512	27,860	39,113	30,814	39,550
SITE PREPARATION	42,834	49,061	51,057	53,289	67,583
MARKING	50,243	50,607	43,390	38,954	37,229
TOTAL AREA TREATED	202,739	201,463	237,209	202,417	225,275

1982 SEED CROP BY SPECIES

	Volume Collected (h1)
Jack pine	22,065
Black spruce	7,393
White spruce	6,490
White pine	2,996
Scots pine	391
White cedar	355
Norway spruce	266
Red pine	200
Black walnut	1,635
Other species	498
Total	42,289

1982 SEED REGENERATION PROGRAMS

Direct seeding	1,113,047,000
Nursery stock production	692,892,000
Container stock production	122,556,000
Research and miscellaneous	7,071,000
Total viable seed	1,935,566,000

SEED IN STORAGE AS OF MARCH 31, 1983 (ONTARIO TREE SEED PLANT)

No. of viable seed (billion)	8.392
No. of different species	74
Total weight (kg)	31,326
Total value (million)	\$4.6

TREE SEED AREAS

Areas in hectares

	Black Spruce	White Spruce	White Pine	Jack Pine	Other	Total
Seed collection areas.....	557.7	202.8	112.0	4,814.3	465.7	6,152.5
Seed production areas.....	171.0	212.8	478.4	1,195.4	471.6	2,529.2
Seed orchards a) total area	177.7	108.7	51.1	92.0	6.6	437.0
b) area planted.....	92.1	16.4	14.4	1.0	6.6	130.5

1982-83 FORESTRY EXTENSION ACTIVITIES

Inquiries serviced.....	105,783
Field inspections.....	9,498
Advisory service plans prepared.....	1,288
Volume of timber marked - sawlogs (cubic metres)	85,943
- pulpwood (cubic metres)	30,752
- fuel (cubic metres)	196,686
Public education activities.....	4,885
Forestry instruction (hrs.) - youth groups	461
- education facilities	3,383

THE WOODLANDS IMPROVEMENT ACT

	No. of Agreements	Areas in Hectares
New Agreements Activated in 1982-83.....	788	9,359
Agreements in effect to March 31, 1983.....	9,824	159,459
New Advisory Service Agreements Activated in 1982-83	78	970
Advisory Service Agreements in effect to March 31, 1983.....	96	1,137
Total trees planted:	9,182,277	

STATUS OF FOREST MANAGEMENT PLANS, MARCH 31, 1983

Areas in Square Kilometres	Forest Management Units						Agreement Forests Area	
	No.	Crown Area	No.	Company Area	No.	FMA Area		
Approved Management Plans.....	26	88,060	5	50,485	4	31,019	33	500
Forest Management Plans submitted for review and approval	23	82,737	8	88,635	2	12,707	3	73
Forest Management Plans being prepared.....	18	67,870	—	—	7	26,492	22	536
Units for which no Management Plans are required (Inactive).....	10	90,676	—	—	—	—	—	—
Unalienated Crown Lands.....	—	4,438	—	—	—	—	—	—
Total	77	333,781	13	139,120	13	70,218	58	1,109

FOREST RESOURCES GROUP

TIMBER SALES BRANCH

Room W-3610, Main Office

Telephone (416) 965-2731 or 963-2396

Director
Special Projects & Energy Biomass
Co-ordinator

E. Markus
W-3612 965-3948
R. P. Alton.....
W-3610..... 3-2396

WOOD ALLOCATION SECTION

Wood Allocation Section Spvr ..
Timber Licensing Spvr.....
Licensing Unit Spvr.....
Resource Economist ..
Industrial Liaison Officer ..
Agreement Administrator

J. R. Keddie
K. E. Cleary
F. C. Parris.....
I. A. Nausendas ..
W. D. Wardle ..
J. Brown ..
W-3611..... 3-2396
W-3610..... 3-2396
W-3601..... 5-2731
W-3601 5-2731
W-3625 .. 5-2785
W-3601 5-2731

MANAGEMENT PLANS SECTION

Management Plans Section Spvr.....
Chief Mensurationist.....
Planning Analyst.....
Planning Analyst.....
FMA Co-ordinator.....

A. M. van Fraassen ..
J. A. Mervart ..
G. Protich.....
H. van Bers ..
T. J. Tworzyanski ..
W-3522..... 5-7631
W-3526..... 5-7631
W-3525..... 5-7631
W-3523 .. 5-7631
W-3524..... 5-7631

WOOD MEASUREMENT SECTION

Wood Measurement Section Spvr ..
Provincial Wood Measurement
Training Officer.....
Senior Data Processing Officer ..
Data Control Officer ..

J. H. Butts.....
W-3642..... 5-0378
J. Bingley ..
R. G. Johnson ..
I. Mahler ..
W-3641 .. 5-0378
W-3641..... 5-0378
W-3641..... 5-0378

FOREST MANAGEMENT INFORMATION SECTION

Forest Management Information Section
Supervisor ..
Forest Resources Inventory Unit Spvr ..
Darkroom Spvr ..
Operations Manager ..
Photo Interpretation Spvr ..
Formagain Unit Spvr ..

J. E. Osborn ..
B. Cardwell ..
J. Howard ..
D. Trafford ..
A. Manley ..
W. E. Jenns ..
W-3542..... 5-6914
W-3544..... 5-6914
W-3520..... 5-6914
W-3543 .. 5-6914
W-3546 .. 5-6914
M1B-43 .. 3-0822

MANAGEMENT UNITS

Areas in square kilometres at March 31

CROWN LAND FORESTS

AGREEMENT FORESTS

Year	No.	Crown Area	No.	Company Area	No.	FMA Area	No.	Total Area	No.	Area
1979	88	333,821.0	17	199,348.8			105	533,169.7	59	1,077.4
1980	88	334,418.0	17	198,751.0			105	533,169.0	60	1,090.0
1981	78	333,402.0	14	165,016.0	5	45,584.0	97	544,002.0	60	1,096.6
1982	82	333,571.0	15	156,006.0	8	52,406.0	105	541,983.0	58	1,013.0
1983	77	333,781.0	13	139,120.0	13	70,218.0	103	543,119.0	58	1,109.0

TIMBER LICENCES

Areas in square kilometres at March 31

Year	Under Section 2 No.	Section 2 Area	Under Section 3 No.	Section 3 Area	Under Section 5 No.	Section 5 Area	Under Section 6 No.	Section 6 Area	Total Licences No.	Licences Area
1979	44	39.1	415	239,531.2	19	96.3	—	—	478	239,666.6
1980	78	75.6	412	242,711.9	20	86.5	—	—	510	242,874.1
1981	56	69.4	423	198,334.8	64	329.7	5	45,583.8	548	244,317.7
1982	34	48.0	412	181,297.1	58	643.0	8	61,788.8	512	243,776.9
1983	26	32.3	415	178,967.1	52	545.6	13	79,627.8	506	259,172.8

MILL LICENCES

Type of Mill	1978	1979	1980	1981	1982
Saw Mills, 8-hour capacity					
Lumber.....over 50M fbm	61	54	60	60	59
Lumber.....10M to 50M fbm	96	96	96	85	87
Lumber.....under 10M fbm	602	594	648	608	593
Misc. Sawn Products.....	30	41	38	50	68
Saw Mills, Total.....	789	785	842	803	807
Veneer Mills.....	24	28	31	25	26
Pulp Mills	23	23	21	21	21
Total.....	836	836	894	849	854

TIMBER HARVESTED ON CROWN LANDS BY SPECIES

In cubic metres and \$000s in years ending March 31

Species	1979	1980	1981	1982	1983
SOFTWOOD					
Balsam.....	602,451	662,803	926,677	718,975	586,883
Cedar.....	16,863	22,886	13,972	13,659	17,195
Hemlock.....	79,471	64,167	59,109	63,504	47,361
Jack Pine.....	5,507,057	6,207,462	5,927,897	5,362,713	4,135,200
Red Pine.....	157,209	192,051	187,494	183,663	168,759
White Pine.....	533,606	607,311	495,271	529,159	563,024
Spruce.....	8,193,427	8,901,496	8,692,652	7,724,772	6,707,133
Tamarack.....	2,321	4,622	5,658	2,330	1,168
Mixed.....	36,527	9,970	10,017	18,503	30,599
HARDWOOD					
Ash.....	1,864	2,494	1,519	2,021	1,558
Basswood.....	12,009	13,897	9,069	11,042	7,769
Beech.....	26,846	23,453	15,737	19,581	18,377
White Birch.....	86,832	96,526	62,557	77,523	93,562
Yellow Birch.....	121,078	121,990	90,478	105,982	78,058
Butternut.....	28	14	16	16	36
Cherry.....	1,235	1,243	634	1,373	1,584
Elm.....	297	306	111	39	165
Ironwood.....	1	1		1	1
Maple.....	292,783	270,417	178,833	219,345	164,317
Oak.....	12,194	14,362	10,845	11,389	10,415
Poplar.....	1,439,082	1,509,922	1,414,955	1,800,431	1,505,038
Mixed.....	642,203	677,854	633,769	647,366	648,316
TOTALS					
Softwoods.....	15,128,932	16,672,766	16,318,746	14,617,179	12,257,322
Hardwoods.....	2,636,451	2,732,479	2,418,525	2,896,121	2,529,198
Total.....	17,765,383	19,405,245	18,737,271	17,513,300	14,786,521
Value.....	\$35,986	\$46,184	\$43,727	\$42,453	\$35,037

VOLUME AND VALUE OF TIMBER CUT FROM CROWN LANDS
in year ending March 31, 1983

Tree Species	Volume in Cubic Metres	Bonus \$	Crown Dues \$	Stumpage Value \$
SOFTWOODS				
White Pine	563,023.830	643,455.11	1,163,467.31	1,806,922.42
Red Pine	168,759.320	178,811.42	338,804.44	513,615.86
Jack Pine	4,135,200.333	479,332.45	10,191,783.73	10,671,115.18
White Spruce	105,685.808	5,385.29	276,781.42	282,166.71
Black Spruce	759,206.946	30,950.18	2,085,628.99	2,116,579.17
Spruce, Mixed.	5,842,240.006	792,318.45	14,226,846.81	15,019,165.26
Hemlock	47,360.684	23,385.64	98,345.96	121,731.60
Balsam	586,883.460	73,414.51	1,284,082.90	1,357,497.41
Cedar	17,194.538	5,852.46	37,354.96	43,207.42
Tamarack	1,168,028	113.50	2,475.42	2,588.92
Mixed Conifers	30,599.418	6,741.39	23,775.43	30,516.82
Total Softwoods	12,257,322.371	2,235,760.40	29,729,346.37	31,965,106.77
HARDWOODS				
Maple	164,316.677	182,895.14	387,317.36	570,212.50
Yellow Birch	78,057.914	150,475.42	221,908.96	372,384.38
White Birch	93,562.434	84,173.84	49,149.40	133,323.24
Oak	10,415.314	24,378.88	22,829.01	47,207.89
Beech	18,377.013	16,408.83	37,606.34	54,015.17
Ash	1,557.977	4,347.06	2,704.01	7,051.07
Elm	165,488	301.05	464.06	765.11
Basswood	7,769.170	22,720.18	14,584.26	37,304.44
Hickory	5,870	76.41	12.12	88.53
Butternut	35.967	42.74	106.51	149.25
Ironwood	1.205	—	0.43	0.43
Cherry	1,584.171	—	3,853.34	4,894.88
Poplar	1,505,038.322	1,041.54	838,536.49	1,027,858.69
Mixed Hardwoods	648,310.607	477,274.19	339,320.60	816,594.79
Total Hardwoods	2,529,198.149	1,153,457.48	1,918,392.89	3,071,850.37
GRAND TOTAL	14,786,520.520	3,389,217.88	31,647,739.26	35,036,957.14

TIMBER HARVESTED ON CROWN LAND BY METHOD OF MEASUREMENT

in cubic metres and \$000s in years ending March 31

Year	Stacked			Cubic			Foot Board Measure			Grade			Mass	Total	Stumpage Value
	Softwood	Hardwood	Softwood	Hardwood	Grade 1	Grade 2	Grade 2	Grade 3	Grade 3						
1979	4,291,932	755,807	6,346,902	579,123	135,462	218,731	114,054	5,323,371	17,765,383	\$35,986					
1980	4,698,427	770,447	6,559,707	715,644	131,394	207,162	109,406	6,213,058	19,405,245	\$46,184					
1981	4,380,421	723,064	6,339,098	513,585	90,064	144,986	70,785	6,475,267	18,737,271	\$43,727					
1982	3,889,894	558,760	5,070,186	611,389	107,244	181,592	81,943	6,719,923	17,513,300	\$42,453					
1983	2,974,245	650,425	4,313,754	525,436	79,545	131,481	71,228	6,040,406	14,786,521	\$35,037					

TIMBER HARVESTED ON CROWN LANDS BY REGIONS

Administrative Regions of Ministry of Natural Resources
in cubic metres in years ending March 31

Regions	1980	1981	1982	1983
Northwestern				
Softwoods	3,920,143	3,925,760	3,688,116	2,888,440
Hardwoods.....	42,118	55,195	71,194	76,868
North Central				
Softwoods	5,639,882	5,138,761	4,464,605	4,007,835
Hardwoods.....	914,377	859,906	923,375	847,995
Northern				
Softwoods	5,580,101	5,576,718	4,795,869	3,945,635
Hardwoods.....	451,595	432,151	538,589	533,394
Northeastern				
Softwoods	1,112,628	1,181,886	1,315,205	1,093,690
Hardwoods.....	652,473	552,629	766,063	523,773
Algonquin				
Softwoods	378,349	477,330	324,081	294,264
Hardwoods.....	579,706	436,581	492,500	442,689
Eastern				
Softwoods	41,469	18,291	29,304	22,852
Hardwoods.....	91,509	82,063	104,400	104,479
Central				
Softwoods	194	—	—	4,607
Hardwoods.....	701	—	—	—
Southwestern				
Softwoods	—	—	—	—
Hardwoods.....	—	—	—	—
Total, Ontario				
Softwoods	16,672,766	16,318,746	14,617,179	12,257,322
Hardwoods.....	2,732,479	2,418,525	2,896,121	2,529,198
Total	19,405,245	18,737,271	17,513,300	14,786,521

TIMBER HARVESTED ON CROWN LANDS BY METHOD OF MEASUREMENT AND TREE SPECIES

in year ending March 31, 1983

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stampage Value \$
STACKED, ROUGH				
White Pine.....	11,574.090	12,036.537	24,015.31	24,502.14
Red Pine.....	12,061.856	12,121.856	17,562.39	17,655.49
Jack Pine.....	1,013,851.005	1,021,002.632	2,540,428.08	2,613,493.22
Pine, Mixed.....	4,607.200	4,607.200	10,458.34	10,458.34
White Spruce.....	5.383	5.383	14.89	15.18
Black Spruce.....	36.872	36.872	101.98	103.97
Spruce, Mixed.....	1,359,371.719	1,370,000.123	3,410,809.77	3,531,559.77
Hemlock.....	177.782	177.782	354.05	361.08
Balsam.....	75,125.829	75,235.721	180,958.37	194,293.47
Cedar.....	4,302.268	4,302.268	9,351.75	9,568.36
Tamarack.....	686.202	686.303	1,546.68	1,570.05
White Birch.....	38,608.342	38,608.342	20,814.24	21,101.84
Ash.....	19.267	19.267	9.83	9.83
Poplar.....	332,634.279	335,572.160	181,933.98	222,275.50
Hardwoods, Mixed.....	1,330.994	1,777.082	687.43	1,118.45
TOTAL.....	2,854,392.088	2,876,189.528	6,399,107.09	6,684,096.69
STACKED, PEELED				
Jack Pine.....	49,216.642	49,216.642	135,496.84	138,650.36
Spruce, Mixed.....	307,975.489	307,975.489	843,998.62	863,583.14
Balsam.....	92,771.244	92,771.244	199,162.37	203,492.51
Cedar.....	0.603	0.603	0.75	2.41
Poplar.....	16,690.213	16,690.213	9,665.97	10,453.93
TOTAL.....	466,654.191	466,654.191	1,188,324.55	1,216,182.35

Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value
CUBIC METRES				
White Pine	416,480.490	415,584.311	851,485.79	1,412,883.33
Red Pine	108,864.063	108,860.063	220,565.48	366,011.76
Jack Pine	761,235.966	761,235.966	1,869,148.07	1,979,267.99
White Spruce	105,680.425	105,860.425	276,766.53	282,151.53
Black Spruce	759,170.074	759,170.074	2,085,527.01	2,116,475.20
Spruce, Mixed	1,901,383.785	1,901,383.785	4,534,491.16	4,878,846.68
Hemlock	34,973.780	34,973.780	71,320.48	88,511.99
Balsam	211,568.107	211,568.107	426,071.37	452,614.06
Cedar	12,891.667	12,891.667	28,002.46	33,636.65
Tamarack	481.725	481.725	928.74	1,018.87
White Birch	51,937.363	53,571.463	27,586.78	75,447.58
Ash	12,814	12,814	6.54	8.33
Poplar	411,972.667	411,712.707	230,085.47	317,644.71
TOTAL	4,776,652.926	4,777,126.887	10,621,985.88	12,094,518.68
BOARD FOOT MEASURE, GRADE 1				
Maple	8,841.540	43,141.151	197,614.38	272,881.88
Yellow Birch	5,796.910	27,050.851	129,100.32	195,860.96
Oak	606.760	3,184.429	13,718.90	23,579.87
Beech	743.410	3,677.500	16,531.03	23,977.84
Ash	57.330	293.049	1,278.11	3,289.55
Elm	11.000	52.155	243.28	361.93
Basswood	343.190	1,769.687	7,691.52	14,575.94
Hickory	0.420	2.430	9.68	38.31
Butternut	3.600	17.525	81.07	102.22
Cherry	73.660	356.160	1,646.52	1,999.05
TOTAL	16,477.820	79,544.937	367,914.81	536,667.55
BOARD FOOT MEASURE, GRADE 2				
Maple	15,467.180	77,611.715	171,988.02	256,834.32
Yellow Birch	7,826.850	37,724.870	87,172.90	169,029.53
Oak	670.660	3,492.268	7,589.54	16,180.51
Beech	1,670.470	8,419.749	18,536.35	25,912.09

Ash	91,820
Elm	19,230
Basswood	496,720
Hickory	0,120
Butternut	1,940
Cherry	187,860
TOTAL	294,331.31

	26,432.850	131,481.462	294,331.31	488,262.87
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BOARD FOOT MEASURE, GRADE 3

Maple	7,937.190
Yellow Birch	2,524.330
Oak	667.140
Beech	1,144.380
Ash	117.280
Elm	3.930
Basswood	590.330
Hickory	0.480
Butternut	1.570
Ironwood	0.190
Cherry	51.980
TOTAL	13,038.800

	71,228.306	29,123.91	69,125.07
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MASS-SCALLED WOOD

White Pine	111,507.096
Red Pine	40,441.916
Jack Pine	1,862,457.072
Spruce, Mixed	1,740,087.274
Hemlock	11,330.067
Balsam	190,546.638
Poplar	734,427.759
Hardwoods, Mixed	355,766.457
TOTAL	5,046,564.279

	6,029,674.893	12,562,744.12	13,448,727.25
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Unit of Measurement Tree Species	Billing Units	Equivalent Cubic Metres	Crown Dues \$	Stumpage Value \$
FUELWOOD, STACKED, CUBIC METRES				
Conifers, Mixed.....	24,068.451	24,068.231	12,275.45	16,398.91
White Birch.....	156.000	156.000	79.50	84.00
Hardwoods, Mixed.....	255,331.917	257,602.123	132,890.28	505,756.70
TOTAL.....	279,556.368	281,826.354	145,245.23	522,239.61
FUELWOOD, CUBIC METRES				
Conifers, Mixed.....	1,923.987	1,923.987	1,041.64	3,659.57
White Birch.....	1,226.629	1,226.629	668.88	689.82
Poplar.....	46.877	46.877	25.60	29.82
Hardwoods, Mixed.....	58,865.019	58,869.019	31,363.00	55,013.13
TOTAL.....	62,062.512	62,062.512	33,099.12	59,392.34
FUELWOOD, MASS SCALED				
Hardwoods, Mixed.....	12,019.285	10,731,450	5,863.24	7,744.73
TOTAL.....	12,109.285	10,731,450	5,863.24	7,744.73
TOTAL TIMBER CUT IN PROVINCE				
		14,786,520.520	31,647,739.26	35,036,957.14

Number of District Cutting Licences issued and included in the above: 3,448

PRINCIPAL STATISTICS OF ONTARIO'S FOREST INDUSTRY BY SECTOR

Source: Statistics Canada

Sector	Year	Establishments No.	Total Employees No.	Total Salaries and Wages \$000s	Fuel and Electricity \$000s	Materials and Supplies \$000s	Value of Shipments \$000s	Total Value Added \$000s
1977								
Logging		246	8,447	153,309	12,539	188,298	435,323	231,149
Wood Industries		645	20,110	242,641	22,715	447,267	870,023	410,509
Paper and Allied		287	43,488	681,113	197,186	1,440,021	2,826,617	1,207,415
Total		1,178	72,045	1,077,063	232,440	2,075,586	4,131,963	1,849,073
Furniture and Fixtures★		455	20,078	222,317	7,734	337,931	709,599	368,612
1978								
Logging		255	9,569	179,797	15,045	244,909	504,960	253,658
Wood Industries		707	21,942	279,260	27,712	541,657	1,077,962	515,321
Paper and Allied		319	45,209	747,394	228,829	1,616,288	3,145,697	1,317,821
Total		1,281	76,720	1,206,630	271,586	2,402,854	4,728,619	2,086,800
Furniture and Fixtures★		527	20,968	250,535	8,299	390,909	828,564	437,325
1979								
Logging		321	9,684	197,276	17,084	306,121	588,598	278,921
Wood Industries		761	22,902	320,144	31,134	690,807	1,319,647	629,169
Paper and Allied		334	46,172	827,101	252,576	2,007,803	3,872,205	1,661,591
Total		1,416	78,758	1,344,521	300,794	3,004,731	5,780,450	2,569,681
Furniture and Fixtures★		618	23,650	307,672	9,856	503,463	1,043,909	547,979
1980								
Logging		391	9,578	215,652	24,072	365,267	668,003	319,883
Wood Industries		778	21,348	328,793	33,475	712,130	1,275,892	562,631
Paper and Allied		349	47,861	926,779	279,530	2,368,722	4,598,977	1,992,117
Total		1,518	78,787	1,471,224	337,077	3,446,119	6,542,872	2,874,631
Furniture and Fixtures★		607	23,703	340,550	11,254	606,934	1,224,628	615,070
1981								
Logging		418	9,003	230,052	30,562	381,431	717,927	327,515
Wood Industries		774	20,970	362,998	43,705	791,939	1,436,082	619,138
Paper and Allied		342	47,381	1,044,810	324,780	2,702,821	5,129,829	2,136,084
Total		1,534	77,354	1,637,860	399,047	3,876,191	7,283,838	3,082,737
Furniture and Fixtures★		610	25,856	416,922	15,181	718,103	1,455,964	755,591

★Does not include furniture upholstery, re-upholstery and repair shops.

MINERAL RESOURCES GROUP★

Room W-6341, Main Office Telephone: (416) 965-4271

Executive Co-ordinator.....	J. E. Finlay	W-6341	4271
Secretary	Mrs. P. Barchuk	W-6341	4271

ONTARIO GEOLOGICAL SURVEY

Room 1121, 77 Grenville St., Toronto, Ont. M5S 1B3 Telephone: (416) 965-1283

Survey Director.....	Dr. E. G. Pye	R-1121	1283
Executive Officer	G. Fromhold-Treu.....	R-1118	1283
Program Evaluation Geologist.....	Dr. M. A. Lee	R-1117A	2095
Regional Liaison Geologist	C. R. Kustra	R-1119	5180
Geoscience Research Grant Program.....	Mrs. W. Paquette	R-1124	1546
Exploration Technology Dev. Fund.....	R. B. Watson	R-1125	1546
Precambrian Geology Section	J. Wood, Chief	R-916	1321
North Archean Group.....	H. Wallace	R-901	1827
Central Archean Group.....	Dr. P. C. Thurston	R-924	1827
South Archean Group	N. F. Trowell	R-907	4817
Proterozoic Group	Dr. B. O. Dressler	R-903	2326
Engineering & Terrain Geology Section	Dr. O. L. White, Chief	R-707	1182
Paleozoic & Mesozoic Subsection.....	Dr. P. G. Telford	R-706	1183
Hydrocarbon Energy Res. Program.....	Dr. P. G. Telford	R-706	1183
Quaternary Geology Subsection.....	E. V. Sado	R-705	1183
Aggregate Assessment Office	D. W. Scott	M1B-45	1663
Geophysics/Geochemistry Section	R. B. Barlow, Chief	R-708	1697
Mineral Deposits Section	Dr. A. C. Colvine, Chief	R-1026	4261
Geoservices Section	G. E. Soucie, Chief	R-915	5601
Geoscience Data Centre.....	H. A. Groen	R-804	4641
Assessment Files Research	R. C. Owen	R-819	6139
Geoscience Information	T. Soobrian	R-807	0190
Scientific Review	Mrs. G. M. Scott	R-718	7325
Geoscience Laboratories	Dr. C. Riddle	R-1117	1337
Mines Library	Mrs. N. Thurston	R-812	1352

★ See Mining Lands and Prospecting Activities under Lands Administration Branch

LIST OF FIELD SURVEYS (REGULAR PROGRAM)

Ontario Geological Survey 1982

No.	Location	Leaders
PRECAMBRIAN GEOLOGY SECTION		
1.	Red Lake Synoptic Project	H. Wallace
2.	Birch Lake Area, Kenora District	S E Nelson
3.	Meen Lake Area, Kenora District	G. M. Stott
4.	Long Bay Area, Kenora District	G. W. Johns
5.	Lake Nipigon Area	R. H. Sutcliffe
6.	Kirby, Fulford, and McQuesten Townships	G. P. Beakhouse
7.	Josephine Area, Algoma District	R. P. Sage
8.	Wawa Area, Alteration of Metavolcanics	R. P. Sage
9.	Batchawana Synoptic Project	E. C. Grunsky
10.	Ile Parisienne and Rudderhead Point Areas	P. E. Giblin
11.	Goulais River Area, Algoma District	P E Giblin
12.	Brunswick Township	G. M. Siragusa
13.	Garson Township	P. E. Giblin
14.	Bleizard Township	J. Martins
15.	Studies of Mafic Dike Swarms, Northern Ontario	R. E. Ernst

ENGINEERING AND TERRAIN GEOLOGY PROGRAMS

16.	Long Point-Port Burwell Area	P. J. Barnett
17.	Evaluation of Remote Sensing Techniques to Locate Mineral Aggregate, Oxford Township	P. J. Barnett & V. H. Singhroy
18.	Algonquin Park, Northeastern Area	M. J. Ford
19.	Algonquin Park, Northwestern Area	R S Geddes
20.	Sault Ste. Marie-St. Joseph Island Area	D. J. Russell
21.	Surface Stress-Release Phenomena Study	D. J. Russell
22.	Aggregate Resource Inventory, Southern Ontario	D. W. Scott
23.	Jan Geotechnical Data Collection	D. W. Sawicki.

GEOPHYSICS/GEOCHEMISTRY PROGRAMS

24.	Night Hawk Geophysical Test Range Results	R. B. Barlow
25.	Electromagnetic Survey, Cochrane District	R. B. Barlow
26.	Lake Collection Methodology for Geochemical Samples, Wawa Area	J. A. C. Fortescue
27.	Gravity and Aeromagnetic Studies, North Central Ontario	V. K. Gupta
28.	Gravity Interpretation of Sudbury Igneous Complex	V. K. Gupta

MINERAL DEPOSIT PROGRAMS

29.	Felsic Intrusion Associated Lode Gold Deposits	M. E. Cherry
30.	Volcanic-Hosted Gold Deposits, Red Lake Area	A. J. Andrews
31.	Madsen Gold Area, Kenora District	M. E. Durocher
32.	MacLeod-Cockshutt and Hard Rock Mines	A. J. Macdonald
33.	Gold Deposits of the Abitibi Belt	C. J. Hodgson

34	Placer Gold Potential, Gowganda Formation	D. F. G. Long
35.	Lundy Township (north half)	L. Owiacki
36.	Ag-Co-Ni Arsenide Vein Studies, Timiskaming District.....	A. J. Andrews
37.	Gold and Base-Metal Vein Deposits, Eastern Ontario.....	J. S. Springer
38.	Graphite and Other Carbon-Rich Minerals, Grenville Area	J. S. Springer
39.	Industrial Minerals Studies.....	M. A. Vos
40	Huronian Paleoplacer Gold Metallogenic Study	A. C. Colvine

LIST OF FIELD SURVEYS (SPECIAL PROGRAM)

Ontario Geological Survey 1982

No.	Location	Leaders
PRECAMBRIAN GEOLOGY PROGRAMS		
1.	Lumby Lake Area (eastern half)	M. C. Jackson
2.	Mishewawa Lake Area, Algoma District	N. W. D. Massey
3.	Black River-Matheson Area, Cochrane District	N. F. Trowell
4.	Hart, Ermatinger, and Totten Townships	A. G. Choudhry
5.	Footwall Study of the Sudbury Igneous Complex	B. O. Dressler
6.	Onaping Formation Study, Sudbury District.....	T. L. Muir
7.	Wicklow Area, Hastings County.....	F. W. Breaks
8.	Lavant Area, Frontenac and Lanark Counties.....	L. Pauk
9.	Grenville Province, Carbonate Metasediment Study.....	M. S. Bourque
10.	Queensborough Road Talc Occurrence, Elzevir Township	C. P. Verschuren
ENGINEERING AND TERRAIN GEOLOGY PROGRAMS		
11.	Kamiskotia Lake-Pamour Area, Cochrane District	J. A. Richard
12.	St. Joseph Island Area, Algoma District.....	P. F. Karrow
13.	Sediment Studies in Eskers, Kirkland Lake Area	C. L. Baker
14.	Sydenham, Bath, and Yorkshire Island Areas	J. G. Leyland
15.	Stratigraphic Significance of the Dummer Moraine.....	P. F. Finamore
16.	Ottawa-St. Lawrence Lowland (northern part).....	D. A. Williams
17.	Oil Shale Assessment Project.....	M. D. Johnson
18.	Comparative Study of Some Peatlands, Northern Ontario.....	W. Shotyk & P. G. Telford
GEOPHYSICS/GEOCHEMISTRY PROGRAMS		
19.	Geochemistry and Mineralogy of Basal Till, Kirkland Lake Area.....	J. A. C. Fortescue & J. Lourim
20.	Till Drilling Project, Kirkland Lake Area	J. A. Fortescue
MINERAL DEPOSITS PROGRAMS		
21.	Selected Industrial Mineral Occurrences, Southern Ontario.....	E. P. Dillon & P. S. Barron

GEOSCIENCE RESEARCH GRANT PROGRAM

Summary of projects and allocations in years ending March 31

	1980	1981	1982	1983
Universities	Projects	Projects	Projects	Projects
Brock	—	1	2	1
Carleton	3	2	1	2
Guelph	—	—	—	—
Lakehead	—	1	—	—
Laurentian	2	3	1	—
McMaster	1	1	1	1
Ottawa	2	—	—	—
Queen's	2	3	1	3
Toronto	8	10	8	9
Waterloo	2	2	2	3
Western	5	5	4	2
Windsor	2	1	1	1
York	—	—	—	1
Total	27	29	21	23
	\$475,567	\$536,447	\$418,289	\$500,000

EXPLORATION TECHNOLOGY DEVELOPMENT FUND PROGRAM

Summary of projects and allocations in years ending March 31

Company	Projects Accepted	Projects Accepted
	1982	1983
Alpha NUCLEAR Company	1	1
Androtex Ltd.	—	1
C. W. Archibald Limited	—	1
Barringer Magenta Limited	2	—
Crone Geophysics Limited	1	1
Dighem Limited	—	1
EDA Instruments Incorporated	1	—
Gem Systems Limited	1	1
Geotech Limited	1	1
Herz Industries Limited	—	1
Huntec ('70) Limited	—	1
Lamontagne Geophysics Limited	1	1
McPhar Instruments Corporation	—	1
Nuclear Activation Services Limited	1	1
Paterson, Grant & Watson Limited	1	1
Phoenix Geophysics Limited	1	1
Questor Surveys Limited	2	2
Scintrex Limited	1	1
Technical Services Laboratories Limited	1	0
Accepted	15	17
ALLOCATIONS	\$780,520	\$1,076,166

PUBLICATIONS RELEASED

Ontario Geological Survey

Types of Publication	1978	1979	1980	1981	1982
Preliminary Maps.....	200	183	205	134	143
Colored Geology Maps.....	12	14	9	21	12
N. Ontario Engineering & Terrain Geology.....	—	11	51	31	—
Geophysical/Geochemical.....	253	426	34	77	36
Aggregate Resource Inventory Papers.....	—	1	21	19	18
Guidebooks.....	—	1	—	—	—
Mineral Deposit Circulars.....	1	2	—	4	1
Miscellaneous Papers.....	6	7	7	8	7
Non-Serial Publications.....	2	3	4	7	9
N. Ontario Engineering & Terrain Studies.....	—	—	42	24	—
Open File Reports.....	22	22	42	41	32
Reports.....	16	11	7	12	10
Studies.....	—	1	—	1	3

ASSESSMENT FILES RESEARCH OFFICE

Office Operations	1978	1979	1980	1981	1982	1946-82
FILES ADDED						
Technical surveys and Summaries for						
Assessment Credit.....	300	350	453	821	860	8,698
MEAP.....	50	50	46	35★		518
Ontario Securities						
Commissions & Misc.....	75	77	150	75	72	1,264
Drilling Reports.....	320	340	310	388	361	9,780
Licence of Occupation.....	(a)	(a)	(a)	3	3	83
OPERATIONS						
Inquiries.....	3,527	2,182	2,577	2,567	2,214	—
Files Examined.....	14,343	15,640	17,696	17,769	14,603	
★ Program discontinued						
(a) Uncertain of exact totals						

MINERAL RESOURCES GROUP

MINERAL RESOURCES BRANCH

Room W-4626, Main Office Telephone(416) 965-1559

Branch Director	Dr T P Mohide	W-4626	5-1559
Mineral Statistics Section	G. Weatherson, Spvr	W-4632.....	5-0211
Metallic Minerals Section	Dr G Anders, Spvr	W-4625	5-1311
Industrial Minerals Section	S E Yundt, Spvr	W-4626	5-1172
Fuel Minerals Section.....	S Keen, Spvr	W-4629.....	3-1882

ONTARIO MINERAL PRODUCTION IN 1981 AND 1982

1981 figures show final completion of shipments

1982 figures are preliminary

METALLIC MINERALS	Unit	1981		1982	
		Quantity	Value \$	Quantity	Value \$
Bismuth.....	kg	312	2,170	2,000	11,000
Cadmium.....	kg	609,215	2,959,469	475,000	1,437,000
Calcium.....	kg	469,403	3,512,073	329,000	2,304,000
Cobalt.....	kg	1,831,319	94,392,310	1,188,000	36,976,000
Copper.....	kg	226,384,780	521,019,544	172,873,000	336,307,000
Gold.....	g	18,307,895	333,797,134	19,802,000	293,856,000
Iron Ore.....	tonne	5,394,620	245,462,549	3,748,000	187,309,000
Lead.....	kg	3,383,521	4,008,744	6,251,000	4,527,000
Magnesium.....	kg	8,548,042	29,439,456	7,630,000	22,890,000
Nickel.....	kg	130,268,510	1,001,217,989	63,065,000	412,930,000
Platinum Group.....	kg	11,905	136,239,362	8,590	98,889,000
Selenium.....	kg	28,576	679,823	28,000	526,000
Silver.....	kg	328,779	136,969,048	345,000	108,448,000
Tellurium.....	kg	4,445	159,575	3,000	103,000
Tin.....	kg	88,774	1,479,882	34,000	601,000
Uranium (U).....	kg	4,859,497	522,011,958	4,955,000	550,586,000
Zinc.....	kg	246,030,807	286,283,503	256,483,000	275,204,000
Total Value, Metallic			3,319,634,589		2,332,904,000

NON-METALLICS	Unit	1981		1982	
		Quantity	Value \$	Quantity	Value \$
Barite.....	tonne	5,000	1,100,000	N/A	1,000,000
Feldspar.....	tonne	960	18,000	N/A	N/A
Gemstones.....	kg	50,000	54,000	N/A	65,000
Gypsum.....	tonne	649,546	5,477,033	506,000	4,506,000
Magnetite.....	tonne	7,218	78,214	N/A	N/A
Nepheline Syenite.....	tonne	587,565	17,531,692	518,000	17,338,000
Peat.....	tonne	9,205	1,201,993	4,000	525,000
Quartz.....	tonne	427,189	9,787,492	295,000	7,805,000
Salt.....	tonne	4,968,503	80,888,513	5,479,000	97,701,000
Serpentine Filler.....	tonne	3,672	487,906	N/A	N/A
Soapstone, Talc,					
Pyrophyllite.....	tonne	18,229	2,591,565	N/A	3,429,000
Sulphur in smelter gas.....	tonne	417,772	16,735,943	N/A	12,673,000
Sulphur Elemental.....	tonne	29,065	1,842,410	N/A	1,870,000
Terrazzo Chips.....	tonne	1,947	110,691	N/A	N/A
Total Value, Non-Metallics			137,905,452		146,912,000

FUELS	Unit	1981		1982	
		Quantity	Value \$	Quantity	Value \$
Natural Gas	000 cu.m	419,271	34,556,335	407,000	38,195,000
Petroleum.....	cu.m	89,983	11,111,980	89,000	13,764,000
Total Value, Fuels		45,668,315		51,959,000	

STRUCTURAL MATERIALS	Unit	1981		1982	
		Quantity	Value \$	Quantity	Value \$
Clay Products.....		N/A	66,660,263	N/A	50,946,000
Cement.....	tonne	3,787,237	205,062,550	2,800,000	215,208,000
Lime.....	tonne	1,836,168	94,699,716	1,463,000	99,484,000
Sand & Gravel.....	tonne	70,191,371	134,335,610	60,000,000	125,000,000
Stone	tonne	37,546,346	126,905,736	32,000,000	128,000,000
Total Value Structural Materials		627,663,875		618,638,000	
GRAND TOTAL FOR ONTARIO		4,130,872,231		3,150,413,000	

Source: Mineral Statistics Section, Ministry of Natural Resources.

DIRECT COSTS OF THE MINERAL INDUSTRY IN ONTARIO

Year	Total Employment	Wages & Salaries	Fuel & Electricity	Process Supplies	Total Cost
1975	44,329	568,817,097	154,748,157	375,688,838	1,099,254,092
1976	44,585	647,549,765	199,216,913	424,029,472	1,270,796,150
1977	43,782	688,435,301	224,263,043	429,950,598	1,342,648,942
1978	33,234	589,143,142	199,018,565	392,059,456	1,180,221,163
1979	33,860	675,471,862	245,536,846	447,427,618	1,368,436,326
1980	41,252	863,044,670	296,889,343	601,153,558	1,761,087,571
1981★★★	41,522	982,665,625	349,709,968	673,489,373	2,005,864,966

★★★ 43,700 including 2,200 estimate of small sand, gravel and stone industries

Source: Mineral Statistics Section, Ministry of Natural Resources.

VALUE OF ONTARIO MINERAL OUTPUT BY MNR REGIONS

MNR Regions	1979	1980	1981
	\$	\$	\$
ALGONQUIN REGION			
Metallic minerals.....	—	54,697,685	57,453,827
Non-metallic minerals.....	—	16,601,372	17,609,906
Structural materials.....	—	10,069,196	7,492,080
Total.....	85,026,932	81,368,253	82,555,813
CENTRAL REGION			
Natural gas, petroleum.....	2,248,754	995,055	1,165,152
Non-metallic minerals.....	4,789,766	5,753,434	6,051,925
Structural materials.....	259,454,996	284,761,165	310,159,188
Total.....	266,493,516	291,509,654	317,376,265
EASTERN REGION			
Metallic minerals.....	—	—	—
Non-metallic minerals.....	—	771,755	626,327
Structural materials.....	—	95,298,546	110,245,387
Total.....	100,971,141	96,070,301	110,871,714
NORTH CENTRAL REGION			
Metallic minerals.....	214,719,805	156,468,788	107,652,059
Non-metallic minerals.....	—	698,156	822,162
Structural materials.....	4,127,021	3,975,687	7,457,705
Total.....	218,846,826	161,142,631	115,931,926
NORTHERN REGION			
Metallic minerals.....	584,530,403	747,565,752	663,110,786
Non-metallic minerals.....	2,228,022	3,752,770	6,529,727
Structural materials.....	3,841,462	4,501,871	3,819,641
Total.....	590,599,887	755,820,393	673,460,154
NORTHEASTERN REGION			
Metallic minerals.....	1,356,670,381	2,435,663,070	2,194,717,693
Non-metallic minerals.....	12,402,041	17,737,296	22,278,600
Structural materials.....	14,627,428	30,563,152	33,717,112
Total.....	1,383,699,850	2,483,963,518	2,250,713,405
NORTHWESTERN REGION			
Metallic minerals.....	339,401,530	414,769,590	296,700,224
Non-metallic minerals.....	—	885,049	884,781
Structural materials.....	5,047,880	7,429,567	7,466,573
Total.....	344,449,410	423,084,206	305,051,578

SOUTHWESTERN REGION		
Natural gas, petroleum.....	27,430,246	42,273,550
Non-metallic minerals.....	69,134,668	72,904,536
Structural materials.....	148,831,020	143,629,290
Total.....	245,395,934	258,807,376
		274,911,376
Sand and gravel produced in unorganized territories.....	5,127,386	—
ONTARIO TOTAL	3,240,610,882	4,551,766,332
		4,130,872,231

Source: Mineral Statistics Section, Ministry of Natural Resources.

MINERAL RESOURCES GROUP

MINING TAXATION & OMEP OFFICE

Room W-4649, Main Office Telephone (416) 965-1062

Director and The Mine Assessor	K. S. Rachamalla.....	W-4649.....1062
Assistant Mine Assessors	A. Cutrona	W-4653.....9955
	R. Gunther	W-4652.....9955
	J. Sheehan.....	W-4654.....9955
	A. Stoddart	W-4641.....9955
OMEP		
Administrator	F. W. Pooley	W-4650.....1062
Evaluator.....	J. B. Gordon	W-4651.....1062

MINING TAX

Summary of mining tax in years ending March 31

	1981 \$ value millions	1982 \$ value millions	1983 \$ value millions
Mining Tax Collected	160.5	55.4	26.2
Total value of mineral production assessed	2,550.0	1,720.9	2,530.0
Taxes payable per assessments	44.5	88.9	96.2
Total additional tax, Interest & penalty	1.1	2.2	12.1
Total refund of taxes (paid in advance)	0.8	4.8	4.8
No. of assessments completed	45	48	48

OMEP DESIGNATED PROGRAMS REGIONAL DISTRIBUTION

In years ending March 31

MNR Regions	No. of Programs		Total Expenditure (\$ million)			% of Total		
	1981	1982	1981	1982	1983	1981	1982	1983
Northern.....	46	54	66	19.8	8.6	14.3	58.4	33.1
Northwestern	16	21	47	5.6	5.7	9.5	16.6	21.7
Northeastern.....	14	23	18	6.6	5.6	4.9	19.4	21.3
North Central.....	12	25	70	1.6	5.0	10.5	4.9	19.0
Algonquin & Eastern	6	14	12	.2	1.3	1.9	.7	4.9
Total.....	94	137	213	\$33.9	\$26.2	\$41.1	100.0%	100.0%
							100.0%	100.0%

OMEP DESIGNATED PROGRAMS BY COMMODITIES

In years ending March 31

	Total Expenditure (\$ million)			% of Total		
	1981	1982	1983	1981	1982	1983
Gold, Silver.....	29.3	20.3	34.8	86.3	77.6	84.7
Base Metals	1.2	1.6	1.4	3.5	6.2	3.4
Industrial Minerals.....	3.0	4.2	2.8	9.0	16.0	6.8
Other (uranium, etc.).....	.4	.1	2.1	1.2	.2	5.1
Total.....	\$33.9	\$26.2	\$41.1	100.0%	100.0%	100.0%

DETAILS OF COMPLETED OMEP PROGRAMS: REGIONAL DISTRIBUTION

In years ending March 31

	No. of Programs		Total Expenses (\$ million)		Eligible Expenses (\$ million)		Grant/Tax Credit (\$ million)		% of Total	
	1982	1983	1982	1983	1982	1983	1982	1983	1982	1983
Northern.....	22	60	4.3	11.5	2.9	8.9	.73	2.21	58.9	47.9
Northwestern	10	35	.8	4.8	.8	4.0	.19	1.01	11.0	20.0
Northeastern.....	9	19	1.3	2.6	1.2	2.1	.31	.51	17.8	10.8
North Central.....	8	25	.8	4.6	.6	3.3	.14	.83	11.0	19.2
Algonquin & Eastern	4	10	.1	.5	.1	.4	.02	.11	1.3	2.1
Total.....	53	149	7.3	24.0	5.6	18.7	1.39	4.67	100.0%	100.0%

DETAILS OF COMPLETED OMEP PROGRAMS: ECONOMIC BENEFITS

In years ending March 31

	1981	1982	1983
EMPLOYMENT			
Number Employed	430	550	1,600
Work days	13,550	17,710	61,780
WAGES (\$ million)	\$1.1	\$1.7	\$6.6
GOODS & SERVICES (\$ million)	\$5.0	\$5.6	\$17.4
DIAMOND DRILLING (metres)	50,450	37,400	133,550

OUTDOOR RECREATION GROUP

Room W-2340, Main Office Telephone (416) 965-5661

Executive Co-ordinator	T. J. Millard	W-2341	5-5661
Secretary	N. Ball	W-2340	5-5661
Provincial Fisheries Scientist	K. H. Loftus	W-2342	5-5661
Enforcement Specialist	W. D. Gartley	W-2342	5-5661
Librarian	S. Louet	W-4540	5-6319
Provincial Parks Council, Chairman.....	F. Gray.....	(416) 368-8305.....	Ex.2574

WILDLIFE BRANCH

Room W-2320, Main Office Telephone (416) 965-4252

Branch Director	J. D. Roseborough	W-2327	4254
Program Development & Audit Section.....	D. A. Hagan, Spvr.	W-2321	4252
Habitat Development	D. L. Euler	W-2323	4252
Moose/Caribou Program	R. A. Stefanski.....	W-2331	4252
Upland Game/Waterfowl Program.....	J. L. Harcus.....	W-2332	4252
Deer/Bear Program	H. Smith	W-2322	4252
Non-game Program	I. E. Bowman	W-2330	4252
Wetland Habitat Co-ordination.....	V. A. Glooschenko	W-2309	7641
Policy Development Section.....	L. J. Post, Spvr.....	W-2325	7641
Wildlife Policy Specialist	P. Allen	W-2306	7641
Wildlife Policy Specialist	W. L. Sleeth	W-2307	7641
Extension Development Section.....	L. Whistance-Smith, Spvr	W-2326	4252
Wildlife Services Section	M. C. Smith, Spvr	W-2328	4252
Commercial Wildlife Program.....	M. Novak	W-2423	3345
Hunter Education	W. M. McKittrick	W-2333	4252
Legal Services	M. Chromec	W-2329	4252
Data System	J. M. Barbowski	W-2304	7641

Box 50, Maple, Ont. L0J 1E0 Telephone (416) 832-2761

Wildlife Research Section	C. D. MacInnes, Spvr.....	Extension 241
Population Dynamics	D. J. Hussel	Extension 241
Bio-Electronic Scientist	J. S. Lotimer	Extension 241
Field Studies Scientist	D. R. Voigt	Extension 241
Rabies Unit Leader	D. H. Johnston	Extension 241
Upland Game/Waterfowl Scientist	H. G. Lumsden.....	Extension 241
Predator Scientist	G. B. Kolenosky	Extension 241
Disease/Parasites Scientist.....	E. M. Addison	Extension 241

HUNTING STATISTICS — Estimates compiled from hunters surveyed by mail

Comparison between hunter numbers and licence sales gives an estimate of the number of licence holders who did not hunt.

MOOSE		RESIDENT		NON-RESIDENT		TOTALS			
Year	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
1976	75,670	543,200	9,420	7,770	55,400	1,450	83,440	598,600	10,870
1977	66,240	470,000	7,730	6,280	45,000	1,290	72,550	515,700	9,020
1978	79,210	542,000	10,630	6,970	52,100	1,320	86,180	594,100	11,950
1979	70,770	529,400	10,110	7,220	54,600	1,580	77,990	584,000	11,690
1980	71,670	426,700	7,670	3,930	25,200	690	75,600	451,900	8,360
1981	66,850	405,500	7,630	3,110	19,400	460	69,960	429,900	8,090

DEER		RESIDENT		NON-RESIDENT		TOTALS			
Year	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest	Hunters	Hunter Days	Harvest
1976	78,250	433,900	14,180	3,240	16,700	★930	81,490	450,600	★15,110
1977	85,840	433,200	13,510	2,720	14,300	★810	88,200	447,500	★14,310
1978	87,950	450,100	13,490	2,860	14,600	★480	90,810	464,700	★13,970
1979	78,440	415,800	13,200	1,560	8,700	★370	80,000	424,500	★13,570
1980	80,280	443,200	9,150	780	4,400	★110	81,060	447,600	9,260

SMALL GAME**		RESIDENT		NON-RESIDENT		SUMMER HUNTING		RESIDENT	
Year	Hunters	Hunter Days	Hunters	Hunter Days	Year	Hunters	Hunter Days		
1974-75	225,840	3,299,000	7,380	52,100	1972	18,720	369,500		
1976-77	242,310	3,388,000	8,530	62,300	1974	16,380	291,800		
1978-79	226,693	2,975,400	8,724	55,100	1975	16,170	246,800		
1979-80	214,550	2,829,600	10,520	65,700					
1980-81	220,020	2,781,300	11,170	76,100					

★ Includes deer harvested on moose licences.

★★ Includes waterfowl.

EXPENDITURE BY HUNTERS — (Excluding Licence Fees)

Survey Year*	Hunt	Estimates Compiled from Hunters Surveyed by Mail		
		Resident	Non-Resident	Total
1973-74.....	Bear	\$ 255,000	\$2,336,000	\$ 2,591,000
1973-74.....	Moose	13,791,000	6,070,000	19,861,000
1976-77.....	Moose	17,821,000	3,192,000	21,013,000
1976-77.....	Deer	12,000,000	809,000	12,809,000
1976-77.....	Small Game	53,561,000	3,252,000	56,813,000
1978-79.....	Small Game	47,634,000	3,278,431	50,912,431
1979-80.....	Moose	22,833,000	3,803,000	26,636,000
1979-80.....	Deer	14,892,000	548,000	15,440,000
1979-80.....	Small Game	47,162,000	4,413,000	51,575,000
1980-81.....	Moose	21,334,000	2,302,000	23,636,000
1980-81.....	Deer	15,887,000	297,000	16,184,000
1980-81.....	Small Game	50,000,000	4,563,000	54,563,000
1981-82.....	Moose	23,576,000	1,929,000	25,505,000

HUNTING LICENCES SOLD

Year	DEER		MOOSE		BEAR	
	Resident	Non-Res	Resident	Non-Res	Resident	Non-Res
1977-78	95,114	4,501	74,834	6,392	1,872	8,977
1978-79	97,477	4,453	87,751	7,186	2,672	10,477
1979-80	85,921	1,762	77,937	7,378	2,666	11,247
1980-81	87,985	823	79,688	4,011	9,064	11,682
1981-82	91,695	630	73,851	3,214	13,736	13,341

Year	SMALL GAME		TOTAL		Total
	Resident	Non-Res	Resident	Non-Res	
1977	389,014	9,225	569,834	29,095	589,929
1978	399,943	9,651	587,643	31,767	619,410
1979	353,077	11,527	519,601	31,914	551,515
1980-81	383,091	12,783	559,828	29,299	589,127
1981-82	368,770	12,492	550,924	29,677	580,601

FUR HARVESTS — in years ending June 30

Average Pelt Value, 1980		Totals from Sealing Officers' Reports and Fur Dealers' Returns				
		1977	1978	1979	1980	1981
\$ 34.36	Beaver.....	136,856	147,556	170,644	209,135	181,383
30.20	Mink.....	14,856	20,557	21,704	27,377	29,944
26.63	Marten.....	20,768	38,878	52,169	45,861	45,305
60.87	Otter.....	7,835	8,592	9,943	11,112	10,952
141.55	Fisher.....	2,165	2,693	3,300	4,457	4,013
267.71	Lynx.....	1,151	1,722	1,873	2,485	2,361
126.37	Bobcat.....	24	16	30	33	21
7.48	Muskrat.....	435,290	433,163	526,890	605,966	554,894
29.67	Raccoon.....	44,223	93,178	105,263	116,249	108,164
1.35	Squirrel.....	5,817	4,180	7,645	16,922	15,836
.89	Weasel.....	3,576	3,685	5,694	6,100	7,187
71.29	Col'rd Fox.....	10,131	15,979	19,282	18,854	15,548
29.79	Arctic Fox.....	101	199	164	176	163
89.33	Timb. Wolf.....	285	431	381	342	748
54.47	Coyote.....	2,276	4,394	3,218	3,819	2,646
52.31	Black Bear.....	283	284	511	818	482
185.36	Wolverine.....	...	11	8	9	9
3.05	Skunk.....	98	210	453	662	438
45.17	Grey Fox.....	...	1	3	1	6
488.33	Polar Bear.....	17	24	21	20	27
Total Pelts.....		685,752	775,753	929,196	1,070,398	980,127
Total Value.....		7,998,708	11,284,007	20,234,367	24,407,054	18,965,648

TRAPPER LICENCES, 1981

Registered.....	3,123 @ \$5 =	\$15,615
Resident.....	9,991 @ \$5 =	49,955
Farmer, Indian Res.....	1,612 @ \$0 =	
Registered Treaty.....	3,315 @ \$1 =	3,315
Resident Treaty.....	25 @ \$5 =	125
Totals.....	18,071	\$69,010
Raccoon Hunters.....	3,231 @ \$5 =	\$16,155

HUNTER EDUCATION PROGRAM

Training began in 1957. It became mandatory for new hunters in 1960 and for new hunters under the age of 20 years in 1968.

Year	ACTIVE INSTRUCTORS at Dec. 31	STUDENTS TRAINED		HUNTING ACCIDENTS		
		Yearly	To Date	Non-Fatal	Fatal	Total
1977	1,011	32,126	452,298	67	4	71
1978	879	38,500	490,798	60	8	68
1979	1,110	35,080	525,878	46	5	51
1980	1,320	38,730	564,608	56	6	62
1981	1,406	39,625	604,233	33	3	36

Total royalties collected in the 1980-81 season were \$1,115,412.

29 PROVINCIAL WILDLIFE AREAS

Hectares

Aylmer Provincial Wildlife Area.....	150
Brighton Provincial Wildlife Area	388
Bruce Recreation Area	3 925
Camden Lake Wildlife Management Area.....	1 052
Darlington Provincial Park.....	111
Fingal Provincial Wildlife Area	293
Gananoque Provincial Wildlife Area.....	580
Holiday Beach Provincial Park	198
Holland Marsh Provincial Wildlife Area	573
Hoople Creek Provincial Wildlife Area.....	105
Hullett Provincial Wildlife Area.....	2 794
Kolapore Uplands Recreational Area.....	4 209
Long Point Provincial Wildlife Area	500
Luther Marsh Wildlife Area	5 666
Matchedash Bay Provincial Wildlife Area.....	225
Mountain Provincial Wildlife Area	1 457
Nonquon River Wildlife Area.....	1 133
Point Petre Provincial Wildlife Area ..	1 276
Presquile Provincial Park	931
Puslinch Crown Resource Management Area	138
Rankin Wildlife Management Area	3 800
Rondeau Provincial Park.....	4 654
St Edmunds Provincial Wildlife Area ..	6 799
Scugog Island.....	182
Sibbald Point Provincial Park	225
Stag Island Wildlife Management Area.....	17
Tiny Marsh Provincial Wildlife Area	931
Wye Marsh Provincial Wildlife Area.....	919

13 WILDLIFE EXTENSION LANDOWNER AGREEMENT AREAS

Hectares

Aylmer Ponds.....	43
Beverly Swamp.....	430
Binbrook.....	401
Calton Swamp.....	96
Christie.....	340
Crooks Hollow.....	17
Hawk Cliff.....	34
Lake St. Lawrence	6 070
Mud Lake	61
Orangeville Reservoir.....	316
Valens.....	223
Waterford Lakes.....	290
Willoughby Marsh	227

ENFORCEMENT STATISTICS 1982-83

Region	Number of Field Conservation Officers	Number of F. & W. Contracts	Number of F. & W. Warnings	Number of F. & W. Charges	Number of non- F. & W. Charges
Eastern	25	49,386	1,248	994	245
Central	28½	49,724	2,659	1,081	950
Algonquin	29	38,355	1,715	823	740
Northern	23	29,602	807	805	97
North Central	22	30,815	800	583	238
Northeastern	34½	52,280	1,130	966	131
Northwestern	24	51,952	1,101	963	—
Southwestern	30	34,490	2,389	948	1,318
Totals	216½	336,604	11,849	7,163	3,719

ENFORCEMENT STATISTICS 1982-83

Total Amount of F. & W. Charge Fines	Total Amount of Other Charge Fines	Total Amount of Fines	Total Number F. & W. Convictions	Total Number of Cases Pending	Total Other Convictions
52,627	16,106	68,733	740	16	243
92,221	47,785	140,006	961	12	916
52,760	32,249	85,009	742	17	700
91,717	3,360	95,077	666	3	70
46,736	11,304	58,040	478	18	202
72,110	7,283	79,393	883	—	145
85,925	—	85,925	817	64	—
88,026	71,843	159,869	822	135	1,278
\$582,122	\$189,930	\$772,052	6,109	265	3,554

OUTDOOR RECREATION GROUP

PARKS AND RECREATIONAL AREAS BRANCH

Room W-3329, Main Office Telephone (416) 965-5160

Branch Director	N. R. Richards	W-3329.....	5160
Policy Co-ordinator	K. G. McCleary (actg)	W-3328.....	2745
Secretary	Mrs N Koohtow	W-3328	5160
Planning Manager	G D Boggs	W-3342	3981
Planning Secretary	Mrs E Mason	W-3342	3981
Sr. Planner, Research	D Hallman	W-3344	3981
Sr. Planner, Parks & Heritage Res.	M. Garscadden	W-3343.....	3981
Sr. Planner, Rec. Areas & Resources	R Phillips (actg)	W-3350	3981
Management Information Specialist	D Driscoll	W-3352	3981
Recreational Areas Planner	(Vacant)	W-3350	3981
Earth Sciences Planner	R J Davidson	W-3349	3981
Life Sciences Planner	T J Beechey	W-3348	3981
Cultural Resources Planner	G Forma	W-3345	3981
Planning Technician	R Speck	W-3351.....	3981
Operations Manager	W Robertson	W-3301	1245
Operations Secretary	Mrs. J Miller	W-3301	1245
Operations Stenographer	Ms. R Coombs	W-3301	1245
Parks Technician	B van Staalduin	W-3311	1245
Park Operations Specialist	B. van Staalduinen (actg)	W-3311.....	1245
Visitor Services Specialist	G Forma (actg)	W-3301	1245
Recreational Areas Technician	B. Huis	W-3311	1245
Extension Specialist	F Bishop	W-3301	6278
Mgmt. Information Clerk	Ms. D. Gluzdziecka	W-3301.....	1245
Development Manager	G Ashenden	W-3326	2745
Development Secretary	Mrs. G. Shaw	W-3326	2745
Development Clerk	Ms P A. Naylor	W-3326	2745
Development Typist	Mrs R Watkins	W-3320	2745
Senior Landscape Architect	G Pittenger	W-3330	2745
Landscape Architect	J. Huang	W-3330	2745
Development Engineer	R. H. Lockwood	W-3324	2745
Design Engineer	I. Johnson	W-3322	2745
Environmental Sanitation Co-ord.	S. Cowan	W-3327	2745
Draftsperson	Ms. M. Lehoczky	W-3330	2745
Architectural Designer	H. Miles	W-3320	2745
Sanitary Engineer	J. Kolodziej	W-3323	2745
Electrical Designer	J. Konya	W-3320	2745
Facility Designer	A. Chappelle	W-3320	2745
Mechanical Designer	G. Szepielewicz	W-3320.....	2745

PUBLIC USE OF PROVINCIAL PARKS

Year	Vehicle Entries	Interior Campers	Campers	Average Days	Camper Nights	Total of Visitors
1978	2,940,238	82,601	1,324,808	2.3	3,116,421	9,570,382
1979	(NR)	73,961	1,355,733	2.4	3,259,752	★★5,161,563
1980	(NR)	76,136	1,319,762	2.4	3,195,477	5,210,712
1981	(NR)	74,199	1,321,494	2.5	3,283,299	★★★★5,948,528
1982	(NR)	80,550	1,267,974	2.6	3,287,603	6,250,777

VISITOR SERVICES PROGRAM ATTENDANCE

Organized Events/Activities

Year	Parks	Guided Tours	Personal Services Evening Programs	Film Programs	School Programs	Children's Programs	Special Events	Other
1982	67	30,604	82,693	60,131	22,328	14,105	76,618	81,515
Indoor Facilities				Outdoor Self-Use Facilities				
Indoor Displays Museums	Activity Centre	Other	Open Air Displays/ Exhibits	Interpretive Trails	Other Trails	Other		
320,551	95,812	46,329	153,614	319,657	103,999	34,452		

PUBLICATIONS

Priced	Other	Free
74,635	563	102,380

Total Visitor Services Program Attendance

+ 1,442,408

GROWTH OF PROVINCIAL PARKS

AREAS in hectares

Year	Parks	Camping		Reserve Areas		Provincial Parks	
		Units	No.	ha	No.	ha	
1978	98	20,176	139	964,334	128	4,269,268	
1979	97	20,723	134	920,558	128	★★4,255,375	
1980	97	20,723	101	949,726	131	4,257,266	
			37	★★★18,167			
1981	97	20,757	101	949,726	131	4,252,960	
			37	18,167			
1982	97	20,393	97	944,337	133	4,258,632	
			37	18,167			

★ Boundaries of some parks redefined.

★★ Visitation calculated from permit sales.

★★★ Any area acquired by MNR for recreational or other purposes but not intended for designation as a provincial park.

★★★★ Includes free day-use visitors.

NR — Vehicle entries no longer recorded.

+ Publications - not included.

133 PROVINCIAL PARKS IN OPERATION IN 1982

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
NORTHWESTERN REGION				
RED LAKE				
Pakwash	631	60	1,383	2,472
KENORA				
Rushing River	190	192	18,498	48,858
Sioux Narrows	129	71	7,078	10,587
FORT FRANCES				
Caliper Lake	134	92	7,301	12,707
Lake of the Woods	1,097	100	5,221	11,029
DRYDEN				
Aaron	70	98	5,776	7,803
Blue Lake	354	188	11,312	35,619
SIOUX LOOKOUT				
Ojibway	2,630	50	5,681	5,681
IGNACE				
Sandbar Lake	3,157	75	7,174	9,943
Total, 9 Parks	8,392	926	69,424	144,699
NORTH CENTRAL REGION				
ATIKOKAN				
Quetico (Dawson Trail)	475,819	133	4,288	9,510
THUNDER BAY				
Inwood	33	85	3,858	3,975
Kakabeka Falls	420	156	24,088	33,580
Middle Falls	4	25	1,682	1,893
Sibley	24,435	200	12,189	26,151
NIPIGON				
Lake Nipigon	1,458	80	2,421	3,347
GERALDTON				
Klotz Lake	119	30	1,114	1,420
MacLeod	74	85	4,045	12,136
TERRACE BAY				
Neys	3,445	146	14,438	19,195
Rainbow Falls	575	230	14,425	18,604
Total, 10 Parks	506,382	1,170	82,548	129,811
NORTHERN REGION				
HEARST				
Fushimi Lake	5,294	45	2,453	6,444
Nagagamisis	8,131	165	3,075	10,504
MOOSONEE				
Polar Bear	2,408,700	—	—	—
Tidewater	980	36	723	723
KAPUSKASING				
Remi Lake	2,964	122	4,314	11,404
COCHRANE				
Greenwater	5,350	104	3,782	6,629
TIMMINS				
Kettle Lakes	1,261	165	8,001	24,787

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
KIRKLAND LAKE				
Esker Lakes.....	3,237	136	4,717	12,043
Kap-Kig-Iwan.....	276	64	3,738	6,242
CHAPLEAU				
Five Mile Lake.....	456	43	2,034	3,491
Ivanhoe Lake.....	1,589	149	4,268	13,269
Missinaibi Lake.....	44,061	50	2,296	7,966
The Shoals.....	11,198	58	2,845	5,423
Wakami Lake.....	8,806	68	2,748	11,693
Total, 14 Parks	2,502,303	1,205	44,994	120,618
NORTHEASTERN REGION				
WAWA				
Lake Superior.....	155,659	307	23,200	35,216
Michipicoten.....	289	—	—	—
Obatanga.....	9,409	132	12,776	15,441
White Lake.....	1,726	280	15,155	22,502
SAULT STE. MARIE				
Batchawana.....	169	—	—	—
Pancake Bay.....	466	340	28,490	44,348
BLIND RIVER				
Mississagi.....	2,883	100	4,490	13,579
ESPAÑOLA				
Chutes.....	108	100	18,531	24,757
SUDSBURY				
Fairbank.....	105	160	7,012	19,150
Halfway Lake.....	4,730	215	13,476	38,079
Killarney.....	34,126	122	7,330	27,478
Windy Lake.....	118	83	3,812	11,159
TEMAGAMI				
Finlayson Point.....	37	114	6,351	14,639
NORTH BAY				
Antoine.....	12	30	34	38
Marten River.....	418	216	9,126	23,881
Restoule.....	662	278	8,316	36,759
Samuel de Champlain.....	2,349	216	9,362	21,592
Total, 17 Parks	213,266	2,693	167,461	348,618
ALGONQUIN REGION				
PARRY SOUND				
Grundy Lake.....	2,554	520	20,558	60,926
Killbear.....	1,756	889	36,349	173,587
Oastler Lake.....	32	148	11,547	31,260
Sturgeon Bay.....	14	82	4,392	14,855
BRACEBRIDGE				
Arrowhead.....	963	389	27,415	74,875
Mikisew.....	131	265	10,005	32,629
BANCROFT				
Lake St. Peter.....	25	62	3,215	8,503
Petroglyphs.....	1,555	—	—	—
Silent Lake.....	844	167	12,078	25,901
ALGONQUIN PARK				
Algonquin.....	765,345	1,385	73,029	206,684
Driftwood.....	265	77	4,612	9,361

Region, District Provincial Park	Area in Hectares	Developed Campsites	Campers	Camper Nights
PEMBROKE				
Bonnechere.....	113	113	5,348	18,181
Carson Lake.....	13	43	2,997	5,589
Total, 13 Parks	773,610	4,140	211,545	662,351
EASTERN REGION				
CARLETON PLACE				
Fitzroy.....	185	248	14,378	29,361
Murphys Point.....	1,240	176	10,588	25,289
Rideau River.....	98	185	10,869	23,103
Silver Lake.....	43	151	8,429	21,861
CORNWALL				
Carillon.....	1,417	416	17,629	39,227
South Nation.....	5	—	—	—
BROCKVILLE				
Charleston Lake.....	902	242	13,828	44,783
TWEED				
Bon Echo.....	6,644	500	27,758	94,556
Sharbot Lake.....	69	190	8,639	23,682
NAPANEE				
Ferris.....	198	163	4,165	7,968
Lake on the Mountain.....	104	—	—	—
North Beach.....	89	—	—	—
Outlet Beach, Sandbanks	1,002	433	30,654	109,286
Presqu'ile.....	937	394	759	78,735
Frontenac.....	5,130	—	—	—
Total, 16 Parks	18,063	3,098	178,696	497,851
CENTRAL REGION				
LINDSAY				
Balsam Lake.....	449	483	26,194	78,608
Darlington.....	209	357	28,730	63,547
Emily.....	83	299	16,361	48,519
Mark S. Burnham.....	39	—	—	—
Serpent Mounds.....	56	113	11,706	32,509
HURONIA				
Awenda.....	1,792	150	12,870	34,045
Bass Lake.....	39	92	10,892	23,892
Devil's Glen.....	6	45	3,300	4,919
Earl Rowe.....	312	555	28,622	71,288
Mara.....	45	106	6,560	17,722
McRae Point.....	138	203	12,251	32,498
Six Mile Lake.....	94	192	22,546	45,447
Springwater.....	47	—	—	—
Wasaga Beach.....	1,545	—	—	—
MAPLE				
Sibbald Point.....	226	648	45,972	100,374
CAMBRIDGE				
Bronte Creek.....	640	—	—	—
NIAGARA				
Rock Point.....	98	126	9,167	20,281
Total, 17 Parks	5,818	3,369	235,171	573,649

Region, District Provincial Park	Area in Hectares	Developed Campsites	Camper	Camper Nights
SOUTHWESTERN REGION				
SIMCOE				
Long Point	141	265	22,580	75,668
Selkirk	73	145	6,594	19,321
Turkey Point	350	195	11,815	29,222
AYLMER				
Iroquois Beach	227	232	14,805	46,045
John E. Pearce	68	—	—	—
Port Bruce	5	—	—	—
CHATHAM				
Holiday Beach	92	46	4,168	9,259
Ipperwash	56	263	18,612	69,866
Peche Island	153	—	—	—
Pinery	2,542	1,085	80,973	263,063
Rondeau	4,816	226	18,172	54,233
Wheatley	241	210	14,447	34,945
WINGHAM				
Point Farms	308	199	15,145	36,895
OWEN SOUND				
Craigleith	66	172	18,559	39,638
Cypress Lake	669	242	23,749	55,870
Fathom Five	9,977	—	—	—
Inverhuron	289	—	—	—
MacGregor Point	1,001	360	15,639	41,895
Sauble Falls	20	152	12,877	34,086
Total, 19 Parks	21,094	3,792	278,135	810,006
WATERWAY PARKS				
Chapleau-Nemegosenda	8,159	(Chapleau)	....	....
Lady Evelyn	2,464	(Temagami)	....	....
Mattawa	3,258	(North Bay)	....	....
Mississagi	19,814	(Blind River, Espanola, Chapleau)	....	....
Winisk	174,000	(Geraldton)	....	....
Total, 5 Parks	207,695	....	....	....
NATURE RESERVE PARKS				
Cavern Lake	189	(Thunder Bay)	....	....
East Sister Island	53	(Chatham)	....	....
Gibson River	168	(Huronia)	....	....
Limestone Island	450	(Parry Sound)	....	....
Matawatchan	65	(Pembroke)	....	....
Montreal River	44	(Sault Ste. Marie)	....	....
Ojibway Prairie	65	(Chatham)	....	....
Ouimet Canyon	777	(Thunder Bay)	....	....
Peter's Woods	34	(Lindsay)	....	....
Shreiber Channel	13	(Thunder Bay)	....	....
Porphyry Island	107	(Thunder Bay)	....	....
Trillium Woods	10	(Aylmer)	....	....
Waubashene Beaches	34	(Huronia)	....	....
Total, 13 Parks	2,009	....	....	....
TOTAL, 133 Parks	4,258,632	20,393	1,267,974	3,287,603

97 PROVINCIAL PARK RESERVE AREAS IN 1982

Region, District Reserve Area	Area in Hectares
NORTHWESTERN REGION	
RED LAKE	
Berens Dowling	30,845
Lund Lake	2,851
Stout Lake	218,192
Telescope Lake	5,962
Woodland Caribou	360,806
KENORA	
Pipestone Peninsula	1,429
Pistol Lake	1,629
FORT FRANCES	
Pow-Wow Grounds	700
Sand Point Island	889
Total, 9 Areas	623,303
NORTH CENTRAL REGION	
ATIKOKAN	
White Otter Lake	24,281
THUNDER BAY	
Arrow Lake	40
Arrow Lake	★405
Arrowhead Peninsula	344
Inwood	405
Kashabowie	2,064
La Verendrye W. R.	1,311
Middle Falls	961
Silver Falls	3,561
NIPIGON	
Cypress River	240
Gravel River	324
Humboldt Bay	29,542
Kopka Lake	4,047
Partridge Lake	2,631
GERALDTON	
Esnagami Lake	23,472
Lukinto Lake	911
Purgatory Chutes	40
TERRACE BAY	
Slate Island	3,963
Total, 18 Areas	98,542
NORTHERN REGION	
HEARST	
Nagagami Lake	1,481
KAPUSKASING	
Missinaibi W. R.	38,046

★ Provincial park not in operation

Region, District Reserve Area	Area in Hectares
COCHRANE	
Long Point Peninsula.....	2,552
Otter Rapids.....	197
Pierre Montreuil.....	17,032
TIMMINS	
Dana-Jowsey Lakes.....	2,547
KIRKLAND LAKE	
McCann.....	259
GOGAMA	
La Motte Lake.....	506
CHAPLEAU	
Missinaibi Lake.....	1,481
The Shoals.....	6,227
MOOSONEE	
Kwataboahenan River.....	94
Total, 11 Areas.....	70,422
NORTHEASTERN REGION	
WAWA	
Kakakiwibik.....	23,829
Pothole.....	352
SAULT STE. MARIE	
Marks Bay.....	104
BLIND RIVER	
Aubrey Falls.....	6,880
Mississagi.....	39,255
ESPAÑOLA	
La Cloche.....	4,969
Misery Bay.....	697
SUDBURY	
Mashkinonje.....	★940
Wanapitae Lake.....	2,790
TEMAGAMI	
W. B. Greenwood.....	9,308
NORTH BAY	
Restoule.....	467
South Bay.....	1,604
Total, 12 Areas.....	91,195
ALGONQUIN REGION	
BRACEBRIDGE	
Bigwind Lake.....	1,878
Chetwynd.....	85
Hardy Lake.....	602
Ragged Falls.....	139
MINDEN	
Red Pine Lake.....	3,173
BANCROFT	
Kawartha Highlands.....	1,587
McKenzie Lake.....	1,539

★ Provincial park not in operation

Region, District Reserve Area	Area in Hectares
PEMBROKE	
Centennial Lake.....	3,833
Madawaska River.....	1,233
Round Lake	124
PARRY SOUND	
Blackstone Harbour...	12,086
Magnetawan W R	9,256
McDonald Bay.....	578
O'Donnell Point.....	786
Round Lake	11,241
Shawanaga Basin.....	1,287
Total, 16 Areas.....	49,427
EASTERN REGION	
BROCKVILLE	
Blue Mountain.....	726
CARLETON PLACE	
Kilmarnock.....	26
Mouth of Tay.....	64
TWEED	
Baudner Property	35
NAPANEE	
Casey Point	33
Total, 5 Areas	884
CENTRAL REGION	
HURONIA	
Bass Lake.....	185
Boyne Valley (Primrose)	1,073
Couchiching	44
Devil's Glen	55
Giant's Tomb	479
Lavender Falls.....	202
Matchedash.....	2,509
Mono Cliffs.....	618
Nottawasaga Lookout..	219
Scott's Falls	484
MAPLE	
Credit Forks.....	205
Duclos Point	137
CAMBRIDGE	
Cranberry Bog.....	9

Region, District Reserve Area		Area in Hectares
LINDSAY		
Harris Island		75
Indian Point		857
Kendal Recreation Area		349
Quackenbush Site		39
Scugog Island		168
Wolf Island		330
NIAGARA		
James N. Allen		113
Short Hills		617
Total, 21 Areas		8,767
SOUTHWESTERN REGION		
AYLMER		
Kamoka		501
CHATHAM		
Fish Point		110
Lighthouse Point		97
OWEN SOUND		
Black Creek		285
Cypress Lake		287
Hope Bay		517
Total, 6 Areas		1,797
TOTAL, 97 Areas		944,337

★37 PROVINCIAL PARK SPECIAL AREAS IN 1982

Region, District Special Area	Area in Hectares
NORTH CENTRAL REGION	
ATIKOKAN	
Warner Lake	302
NIPIGON	
Gravel Bay.....	101
TERRACE BAY	
Steel River	1,093
Total, 3 Areas	1,496
NORTHERN REGION	
HEARST	
Rogers	611
Total, 1 Area	611
ALGONQUIN REGION	
MINDEN	
Buckhorn	385
Gull River	27
PARRY SOUND	
C.N.R. Line	269
Franklin Islands	7
Total, 4 Areas	688
EASTERN REGION	
CORNWALL	
Cornwall Recreation Area	83
Total, 1 Area	83
CENTRAL REGION	
HURONIA	
Allandale	80
Gloucester Pool.....	36
Minesing Swamp.....	450
MAPLE	
Cheltenham Property.....	100
Grange Property	142
CAMBRIDGE	
Burlington Parkway Property.....	26
Yaremko-Ridley	64
Total, 7 Areas	898

SOUTHWESTERN REGION	
AYLMER	
East-Zorra Trail	24
CHATHAM	
Fox Property	7
Temblay Beach	62
WINGHAM	
Stinsin Estate	48
OWEN SOUND	
Beaver Valley Lowlands	540
Beaver Valley Ski Area	297
Cape Chin	437
Colpoys Bay	213
Dorcas Bay	68
Dunks Bay	16
Dyers Bay	79
Eugenia Lake	4
Hoggs Falls	82
Johnston Harbour	3,157
Kolapore Uplands	1,945
Lion's Head Lookout	1
Lion's Head Recreation Area	494
Meaford Lookout	404
Pretty River Valley	879
Spring Creek	2,104
Umbrella Lake	3,530
Total, 21 Areas	14,391
TOTAL, 37 Areas	18,167

★ Any area acquired by MNR for recreational or other purposes but not intended for designation as a provincial park.

OUTDOOR RECREATION GROUP

FISHERIES BRANCH

Room W-2354, Main Office

Telephone (416) 965-7883

Branch Director
 Client Services Section
 Co-ordinator, Policy Development
 Co-ordinator, Public Involvement
 Extension Specialist
 Data Systems Biologist
 Economist
 Commercial Development Co-ordinator
 SPOF Policy & Implementation Co-ord.
 Fish Culture Section
 Production Biologist
 Fish Health Biologist
 Fish Nutrition Specialist
 Fish Requirements Biologist
 Fish Culture Operation Co-ordinator
 Fish Culture Systems Specialist
 Engineer
 Environmental Dynamics Section
 Habitat Enhancement Biologist
 Habitat Protection Biologist
 Aquatic Habitat Inventory Biologist
 Inventory Data Systems & Lab Spec
 Aquatic Habitat Acidification Spec.

A. S. Holder	W-2347	5947
J. A. Haxell, Mgr	W-2349	7885
F. P. Maher	W-2346	7885
C. I. Goddard	W-2350	7885
A. A. Wainio	W-2353	7885
W. G. Simpson	W-2446	7885
N. Bedi	W-2344	7885
J. C. Tilt	W-2455	7885
J. A. Cherry	W-2345	7885
J. M. Byrne Spvr	W-2451	7886
J. H. Hynes	W-2449	7886
A. Sippel	W-2453	7886
C. Y. Cho	(519) 824-4120-2212	
B. Potter	W-2450	7886
C. C. Mack	W-2452	7886
D. Farquhar	W-2454	7886
H. Yoshida	W-2448	7886
D. P. Dodge, Spvr	W-2312	7887
R. M. Biette	W-2312	7887
J. T. Allin	W-2312	7887
G. A. Goodchild	W-2312	7887
G. E. Gale	W-2312	7887
G. L. Beggs	W-2442	7887

Box 50, Maple, Ontario L0J 1E0

Telephone (416) 832-2761

Fisheries Research Section
 Age/Growth Studies & Envir. Stress
 Brook Trout Studies
 Community Dynamics
 Limnology
 Stocks Assessment & Genetics
 Harkness Memorial Lab (winter)
 Harkness Memorial Lab (summer)
 Systems Ecology

A. H. Lawrie, Spvr	Ext	251
J. Casselman		251
J. H. Fraser		251
D. O. Evans		251
A. M. McCombie		251
P. Ihssen		251
J. A. MacLean		251
J. A. MacLean	(705)	637-2103
B. Shuter		251

RESEARCH STATIONS

Fisheries Research Section
 Box 5000, Thunder Bay, Ont. P7C 5G6
 Sault Ste. Marie Research Station
 875 Queen St. E., S.S. Marie, Ont. P6A 2B3
 South Baymouth Fisheries Laboratory
 R.R. 1, Tehkummah, Ont. P0P 2C0
 Wheatley Fisheries Research Station
 R.R. 2, Wheatley, Ont. N0P 2P0
 Glenora Fisheries Research Station
 R.R. 4, Picton, Ont. K0K 2T0
 Harkness Lab (Algonquin Park)
 Box 110, Whitney, Ont. K0J 2M0

R. A. Ryder	(807)	683-6232
P. J. Colby		475-1635
W. H. Kwain	(705)	942-1411
B. Henderson	(705)	859-3137
J. A. Reckahn		3137
S. J. Nepsky	(519)	825-4171
J. H. Leach		4171
W. J. Christie	(613)	476-2400
D. A. Hurley		2400
Dr. J. A. MacLean	(705)	637-2103

FISH PLANTINGS

Numbers in 000s of Fish (F) and Eggs (E)

Stocked from Ontario Fish Culture Stations

Species	E/F	1978	1979	1980	1981	1982
Coho Salmon.....	F	201	286	418	224	144
Chinook Salmon.....	F	393	147	18	12	270
Rainbow Trout.....	F	1,057	1,099	1,347	395	369
Brown Trout.....	F	—	—	—	—	71
Brook Trout.....	E	380	18	—	860	—
	F	1,078	682	1,260	1,459	824
Lake Trout.....	E	120	6	5	—	—
	F	1,536	1,478	1,928	2,636	2,517
Splake.....	E	377	—	76	—	—
	F	185	800	798	684	927
Aurora Trout.....	F	38	21	17	30	—
Whitefish.....	F	—	—	—	—	13
Muskellunge.....	F	1,271	1,490	1,120	791	1,146
Smallmouth Bass.....	F	185	78	65	160	—
Largemouth Bass.....	F	112	—	—	—	—
Walleye.....	E	—	13,450	—	—	—
	F	8	10	472	29	31
Total.....		6,946	19,567	7,523	7,250	6,312

COMMERCIAL FISHING LICENCES

Year	Food-Fish Harvesting	Bait-Fish Harvesting	Bait-Fish Dealers	Bait-Fish Preservers	Total
1978	1,048	1,679	1,832	99	4,658
1979	1,093	1,549	1,791	114	4,547
1980	1,029	1,728	1,858	124	4,739
1981	1,047	1,712	1,861	149	4,762
1982	1,068	1,694	1,847	134	4,743

ANGLING LICENCES

Year	Number Sold to Non-Residents
1978.....	654,672
1979.....	673,925
1980.....	628,988
1981.....	673,334
1982.....	661,934

FISH STOCKING from Ontario Provincial Fish Culture Stations
For the fiscal year ending March 31, 1983

(E-Eggs)

Station	Species	Quantity	Weight (kg)
Codrington.....	Brown Trout.....	71,150	887
	Brook Trout.....	14,054	2,373
Chatsworth	Lake Trout	119,807	2,216
	Splake.....	773,712	29,076
	Whitefish.....	13,222	635
Deer lake.....	Rainbow Trout.....	33	1
	Brook Trout.....	35,174	378
	Lake Trout	191,155	3,771
	Muskellunge.....	1,145,710	73
Dorion.....	Brook Trout.....	338,742	3,154
	Lake Trout	949,773	22,059
Hill's Lake	Brook Trout.....	25,000	14
Normandale.....	Rainbow Trout	166,366	12,986
North Bay	Brook Trout	151,892	1,816
	Lake Trout	143,538	3,134
Pembroke	Brook Trout.....	160,400	1,622
	Lake Trout	171,050	2,688
Ringwood	Coho Salmon.....	141,868	3,819
	Chinook Salmon.....	269,886	741
Sandfield	Brook Trout.....	110	50
	Lake Trout	58,310	757
	Splake	153,580	3,410
Skeleton Lake....	Rainbow Trout	129,800	2,938
	Lake Trout	82,700	940
Tarentorus	Coho Salmon.....	2,090	64
	Rainbow Trout	33,880	1,360
	Brook Trout.....	64,348	458
	Lake Trout	506,421	6,503
White Lake.....	Rainbow Trout	12,400	319
	Brook Trout	34,250	245
	Lake Trout	237,866	2,653
	Walleye.....	30,527	77
Westport	Rainbow Trout	26,206	1,372
	Lake Trout	56,824	860

EMPLOYMENT AND INVESTMENT IN COMMERCIAL FISHERY — 1982

Classification		Lake	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron
EMPLOYEES	Number	294	824	23	148	
FISHING BOATS						
12.2 m and over	Number	3	148	—	—	25
(40' and over)	kg	47,112	3,707,352	—	—	549,036
6.1 m to 11.9 m.....	Value \$	228,000	20,079,099	—	—	2,211,716
Under 6.1 m	Number	72	35	9	—	11
	Value \$	872,200	442,250	90,000	—	243,000
	Number	185	58	8	—	10
	Value \$	318,937	71,245	13,550	—	7,350
FISHING GEAR						
Gill Nets.....	Metres	1,113,858	7,827,187	—	—	1,247,670
	Value \$	817,433	5,909,830	—	—	889,460
Pound Nets.....	Number	—	24	195	—	—
	Value \$	—	59,000	181,000	—	—
Trap Nets.....	Number	91	170	143	—	128
	Value \$	158,700	335,000	101,000	—	232,141
Hoop Nets	Number	969	164	50	—	3
	Value \$	383,785	64,750	15,000	—	3,600
Seine Nets.....	Metres	2,366	3,675	1,305	—	—
	Value \$	23,550	57,100	13,400	—	—
Night Lines	Number	37,520	6,100	6,300	—	500
	Value \$	22,481	4,900	5,030	—	300
Dip Nets	Number	22	17	—	—	1
	Value \$	243	210	—	—	98
Trawl Nets	Number	—	297	—	—	4
	Value \$	—	625,785	—	—	10,000
Trammel Nets.....	Metres	—	841	—	—	—
	Value \$	—	2,800	—	—	—
SHORE INSTALLATIONS						
Freezers & Icehouses	Number	42	34	7	—	26
	Value \$	310,686	2,190,910	76,000	—	539,800
Piers & Wharves.....	Number	38	44	9	—	9
	Value \$	146,730	324,150	33,200	—	52,950
Net Sheds.....	Number	107	130	15	—	28
	Value \$	392,525	2,987,182	183,000	—	560,600
Miscellaneous.....	Value \$	13,550	1,100	—	—	—
NEW CAPITAL INVESTMENT						
Engines.....	Value \$	79,972	304,362	600	—	18,300
Hulls.....	Value \$	139,900	726,400	400	—	45,000
Fishing Gear.....	Value \$	167,000	958,781	1,470	—	106,850
Wheelhouse Equip.....	Value \$	7,490	262,845	750	—	34,500
Other Equipment.....	Value \$	1,448	5,900	227	—	—
TOTAL NEW CAPITAL		\$ 395,810	\$ 2,258,288	\$ 3,447	\$ 204,650	
TOTAL INVESTMENT		\$4,084,630	\$35,413,599	\$714,627	\$4,955,665	

Georgian Bay	North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total
115	62	173	422	45	2,106
20	11	20	11	—	238
285,390	182,106	385,956	181,200	—	5,338,152
774,200	508,000	1,368,000	460,500	—	25,629,515
26	10	33	71	5	272
240,900	23,500	364,200	492,714	25,800	2,794,564
47	20	52	302	26	708
67,600	22,725	89,750	485,539	33,340	1,110,036
830,700	293,967	842,227	562,547	17,280	12,735,436
611,700	201,825	579,808	462,987	11,560	9,484,603
15	6	12	17	—	269
18,900	7,500	18,100	11,000	—	295,500
6	18	8	147	21	732
7,500	31,800	17,600	157,658	19,600	1,060,999
1	—	2	95	220	1,504
800	—	3,000	25,025	65,900	561,860
—	—	—	180	252	7,778
—	—	—	560	800	95,410
—	—	—	—	3,900	54,320
—	—	—	—	2,430	35,141
6	1	3	27	3	80
42	30	45	470	35	1,173
—	—	13	—	—	314
—	—	24,300	—	—	660,085
—	—	—	—	366	1,207
—	—	—	—	1,650	4,450
38	20	38	108	9	322
225,150	203,700	1,552,950	635,246	1,700	5,736,142
34	10	48	80	5	277
172,250	33,033	181,800	365,445	16,900	1,326,458
33	19	62	82	6	482
168,050	117,076	230,900	176,535	4,050	4,819,918
—	—	—	57,075	2,320	74,045
25,225	36,925	35,397	60,187	5,850	566,818
28,750	68,100	111,800	45,497	2,895	1,168,742
74,645	75,307	59,635	82,588	6,893	1,533,169
21,917	1,094	15,860	10,711	—	355,167
—	—	10,972	12,800	—	31,347
\$ 150,537	\$ 181,426	\$ 233,664	\$ 211,783	\$ 15,638	\$ 3,655,243
\$2,437,629	\$1,330,615	\$4,664,117	\$3,542,537	\$201,723	\$57,345,142

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest January to December 1982 (shown in kilograms and dollar value)

Species	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay
Bowfin.....	75	10,440	2,232	—	108
Bullhead.....	108,569	22,185	1,397	9	291
Burbot (Ling).....	—	—	—	1,404	4,429
Carp.....	13,119	19,444	74,426	12,717	1,283
Catfish.....	11,686	31,508	28,148	17,757	215
Chub (Deepwater Cisco).....	—	—	—	193,739	56,762
Crappie.....	7,996	5,406	152	—	—
Eel.....	29,095	20	—	2	—
Lake Herring.....	2,173	—	—	3,670	11,593
Lake Trout.....	39	1,557	—	17,630	549
Lake Whitefish.....	10,021	12,030	104	701,871	77,246
Freshwater Drum.....	3,020	189,550	17,402	19,545	—
Northern Pike.....	8,341	23,940	1,411	414	1,929
Pacific Salmon.....	63	16,475	—	4,721	104
Rock Bass.....	5,646	238	1,458	182	183
Round Whitefish.....	142	—	—	4,167	9,080
Sauger.....	3	90	—	—	108
Shad.....	109	1,688	264	1,459	—
Smelt.....	36,747	19,555,814	—	74	124
Splake.....	—	6	—	222	37,768
Sturgeon.....	267	472	19	1,594	231
Sucker.....	11,975	6,769	14,737	62,739	19,513
Sunfish.....	69,170	26,428	—	—	—
White Bass.....	7,108	1,556,102	7,965	5,702	—
White Perch.....	33,863	4,206	89	—	—
Yellow Perch.....	538,767	4,133,908	1,465	135,363	38,797
Yellow Pickerel.....	1,561	909,397	286	116,534	8,719
Animal Food.....	39,138	448,280	1,301	22,855	290
Total Landings (kg).....	938,693	26,988,953	152,856	1,324,370	269,322
Total Value (\$).	\$1,904,711	\$26,183,419	\$76,526	\$2,832,535	\$504,117

COMMERCIAL FISH INDUSTRY

Commercial Fish Harvest January to December 1982 (shown in kilograms and dollar value)

North Channel	Lake Superior	Northern Inland Waters	Southern Inland Waters	Total Landings (kg)	Total Value (\$)
—	—	—	379	13,234	4,080
9	—	14,049	56,991	203,500	212,989
1,319	2,773	69,778	1,043	80,746	3,595
2,844	—	—	34,439	158,272	58,844
88	—	—	6,148	95,550	98,675
16	17,779	40,049	—	308,345	516,123
—	—	—	9,297	22,851	47,770
—	—	—	2,468	31,585	39,458
4,029	901,020	199,545	4	1,122,034	877,444
1,348	188,748	47,957	5	257,833	607,396
170,589	164,210	628,941	16	1,765,028	3,303,613
—	—	191	707	230,415	33,963
8,598	1,517	276,166	22	321,338	375,471
1,036	3,973	—	320	26,692	51,642
394	—	11,968	1,555	34,624	61,386
716	20,978	—	—	35,083	26,729
22	—	27,469	—	27,692	43,467
—	—	—	34	3,554	491
—	17,277	—	959	19,610,995	5,640,983
2,282	—	—	—	40,278	110,410
2,208	765	12,655	1,461	19,672	107,144
27,354	123,522	340,858	18,581	626,048	150,261
—	—	—	34,105	129,703	126,124
—	—	861	852	1,578,590	2,085,343
—	—	—	1,086	39,244	25,607
39,153	60,484	4,333	10,184	4,962,454	18,086,913
20,235	662	311,013	2	1,368,409	4,078,508
40,149	11,028	105,915	16,353	685,309	14,016
322,389	1,514,736	2,090,748	197,011	33,799,078	
\$617,647	\$2,062,524	\$2,425,600	\$181,266		\$36,788,345

ONTARIO COMMERCIAL FISH HARVEST

by species in 000s kg and \$000s

Species	1978	1979	1980	1981	1982	1982 Value
Bowfin	16	14	9	20	13	4
Bullhead	222	236	241	234	204	213
Burbot (Ling)	173	129	108	182	81	4
Carp	113	180	121	208	158	59
Catfish	86	96	85	117	96	99
Chub (Deepwater Cisco)	558	498	446	394	308	516
Pacific Salmon	3	21	17	38	27	52
Eel	232	226	168	112	32	39
Freshwater Drum	166	164	179	257	230	34
Goldeye .....	.....	.....	.....	.....	.....	.....
Lake Herring (Cisco)	929	990	1,464	1,456	1,122	877
Lake Trout	165	165	278	227	258	607
Lake Whitefish	1,692	1,289	1,681	1,748	1,765	3,304
Northern Pike	344	312	267	296	321	375
Rock Bass & Crappie	80	99	75	64	58	109
Round Whitefish	40	46	75	57	35	27
Sauger	13	16	17	20	28	43
Smelt	12,300	10,892	11,336	13,944	19,611	5,641
Splake	12	9	39	57	40	110
Sturgeon	13	15	21	20	20	107
Sucker (Mullet)	536	630	563	606	626	150
Sunfish	106	127	118	126	130	126
White Bass	756	763	904	896	1,579	2,085
White Perch	229	49	57	47	39	26
Yellow Perch	4,505	5,873	6,236	4,784	4,962	18,087
Yellow Pickerel	846	1,046	1,343	1,476	1,368	4,079
Animal Food	1,076	1,010	637	772	688	15
Total Landings	25,211	24,895	26,485	28,158	33,799	
Total Landed Value	\$17,161	\$25,874	\$23,644	\$31,767		\$36,788

ONTARIO COMMERCIAL FISH HARVEST

by waters in 000s kg and \$000s

Year	Lake Ontario	Lake Erie	Lake St. Clair	Lake Huron	Georgian Bay	North Channel	Lake Superior	Northern Inland	Southern Inland	Total	Total \$
1978	1,112	18,072	.....	1,179	349	172	1,834	2,352	140	25,210	17,181
1979	878	18,473	.....	858	331	210	1,621	2,217	307	24,895	25,874
1980	891	19,490	37	1,083	36	158	2,151	2,080	234	26,485	23,644
1981	1,163	20,334	93	1,461	346	314	2,060	2,154	233	28,158	31,767
1982	939	26,989	153	1,324	269	322	1,515	2,091	197	33,799	36,788

LAKE ONTARIO COMMERCIAL FISH HARVEST

by species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Eel	Herring	Smelt	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total \$
1978	164	9	229	6	27	67	226	318	66	1,112	1,138
1979	163	4	222	13	26	70	46	253	81	878	1,478
1980	176	.....	164	5	22	72	55	265	132	891	1,147
1981	154	73	109	2	34	60	48	563	120	1,163	1,930
1982	120	13	29	2	37	69	34	539	96	939	1,905

LAKE ERIE COMMERCIAL FISH HARVEST

by species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Smelt	White Bass	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1978	64	29	158	11,974	742	3,963	265	877	18,072	9,884
1979	54	15	122	10,831	756	5,423	538	734	18,473	17,592
1980	56	10	151	11,296	888	5,674	800	615	19,490	14,024
1981	76	15	212	13,790	881	3,795	956	609	20,334	20,261
1982	54	19	190	19,556	1,556	4,134	909	571	26,989	26,183

LAKE ST. CLAIR COMMERCIAL FISH HARVEST by species in 000s kg and \$000s

Year	Bullhead and Catfish	Carp	Freshwater Drum	Northern Pike	Rock Bass & Crappie	Sucker	White Bass	Yellow Perch	Other Species	Total	Total \$
1978	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1979	14	5	1	5	5	2	2	2	2	37	23
1980	7	34	11	1	1	5	5	17	7	93	53
1981	22	74	17	1	2	15	8	1	5	153	77
1982	30	74	.....	.....	.....	.....	.....	.....	.....	.....	.....

LAKE HURON COMMERCIAL FISH HARVEST by species in 000s kg and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1978	15	70	4	641	9	49	124	77	190	1,179	1,960
1979	17	67	3	375	5	30	49	95	217	858	1,730
1980	15	101	3	524	6	18	201	124	91	1,083	2,369
1981	14	219	3	594	4	49	246	124	208	1,461	3,255
1982	13	194	4	702	4	63	135	117	92	1,324	2,833

GEORGIAN BAY COMMERCIAL FISH HARVEST by species 000s kg and \$000s

Year	Carp	Chub	Lake Herring	Lake Whitefish	Round Whitefish	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1978	6	151	16	71	13	19	35	23	15	349	520
1979	4	122	21	74	19	13	45	17	16	331	641
1980	7	77	20	88	15	41	36	11	66	361	505
1981	2	57	12	105	8	28	49	11	74	346	669
1982	2	57	12	77	9	20	39	9	44	269	504

NORTH CHANNEL COMMERCIAL FISH HARVEST by species 000s kg and \$000s

Year	Smelt	Lake Whitefish	Northern Pike	Round Whitefish	Sturgeon	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1978	88	5	3	2	23	13	6	32	172	196
1979	63	9	3	2	36	29	20	48	210	280
1980	73	6	1	4	34	7	13	20	158	279
1981	120	13	2	3	26	52	20	78	314	526
1982	171	9	1	2	27	39	20	53	322	618

LAKE SUPERIOR COMMERCIAL FISH HARVEST by species 000s kg and \$000s

Year	Chub	Lake Herring	Lake Trout	Lake Whitefish	Smelt	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1978	294	854	128	151	294	42	41	....	30	1,834	1,307
1979	271	887	111	159	34	75	47	....	37	1,621	1,723
1980	240	1,282	212	225	17	77	38	....	60	2,151	2,606
1981	91	1,327	176	173	42	110	61	....	80	2,060	2,246
1982	18	901	189	164	17	124	61	1	40	1,515	2,063

NORTHERN INLAND WATERS COMMERCIAL FISH HARVEST by species 000s kg and \$000s

Year	Burbot	Chub	Lake Herring	Lake Trout	Lake Whitefish	Northern Pike	Sucker (Mullet)	Yellow Perch	Yellow Pickerel	Other Species	Total	Total \$
1978	164	43	46	20	737	298	385	467	192	2,352	2,053	
1979	122	38	63	34	616	266	446	353	279	2,217	2,228	
1980	91	27	154	32	765	226	337	337	111	2,080	2,533	
1981	169	26	106	18	745	246	358	363	123	2,154	2,641	
1982	70	40	200	48	629	275	341	311	177	2,091	2,426	

SOUTHERN INLAND WATERS COMMERCIAL FISH HARVEST

by species 000s kg and \$000s

Year	Bulthead and Catfish	Carp	Lake Whitefish	Rock Bass & Crappie	Sucker (Mullet)	Sunfish	White Perch	Yellow Perch	Other Species	Total	Total \$
1978	41	58	....	4	1	15	3	6	12	140	103
1979	58	138	....	11	9	31	3	18	39	307	203
1980	57	71	....	4	15	29	2	11	45	234	157
1981	63	69	....	8	4	34	3	15	37	233	186
1982	63	34	....	11	19	34	1	10	25	197	181

EMPLOYMENT AND INVESTMENT IN ONTARIO COMMERCIAL FISHERY

Year	Employees	Boats 12.2 m & Over	Boats Under 12.2 m	Gill m 000s	Pound Nets	Trap Nets	Hoop Nets	Seine m 000s	Freezers and Ice Houses	Wharves and Piers	New Investment \$000s	Total Value \$000s
1978	2,231	206	1,017	11,145	141	473	2,459	73	329	262	447	2,446
1979	1,997	212	913	10,869	80	476	1,497	62	309	263	451	2,834
1980	1,964	213	837	12,068	172	556	1,630	75	317	250	457	3,714
1981	2,043	237	885	12,616	160	689	1,420	77	291	275	476	5,447
1982	2,106	238	980	12,735	269	732	1,504	78	322	277	482	3,655

LANDS AND WATERS GROUP

Room W-6626, Main Office Telephone (416) 965-6045

Executive Co-ordinator	H. A. Clarke	W-6626.....6046
Executive Asst	Ms. H. Cobden	W-6623.....1075
Res. Economist	Dr. P.L.M. Warwick	W-6625.....5067

LAND MANAGEMENT BRANCH

Room W-6640, Main Office Telephone (416) 965-1316

Branch Director	E. F. Anderson	W-6643.....1316
Secretary	Mrs. B. Bourne	W-6643.....1316
Land Acquisition Officer	J. Paige	W-6644.....1316
Public Lands Section	J. Morton, Spvr	W-6603.....2741
Public Lands Management	L. Fleguel	W-6621.....4567
Disposition	W. P. Small	W-6621.....2743
Land Appraisals Officer	J. Hogan	W-6629.....2742
Property Management Officer	L. Hall	W-6621.....2744
Land Management Planning	N. C. Gordon	W-6604.....2742
Mining Lands Section	J. C. Smith, Spvr	W-6602.....1380
Mining Lands Administrator	F. W. Matthews	W-6610.....6918
Titles Section	W.L. Good	W-6645.....1319
Document Officer	C. D. Egerton	W-6645.....1319
Acreage Tax Administrator	Mrs. D. Holland	W-6645.....1319
Records Officer	R. E. Dixon	W-6645.....1319
Land Records Manager	J.C. Sherman	W-6645.....1319
Resource Access Section	J. M. Small, Spvr	W-6642.....5735

PUBLIC LAND in years ending March 31

Year	Patents		Leases		Licences of Occupation	
	No.	ha	No.	ha	No.	ha
1979	126	523	63	99	79	3 580
1980	578	1 216	201	198	135	3 407
1981	890	1 093	162	276	100	3 066
1982	690	2 385	211	448	113	845
1983	1,093	1 517	114	208	96	472

LANDS ACQUIRED BY CROWN in years ending March 31

Year	Provincial Tax Forfeitures ha	Cancellation of Sales ha	Purchased or Otherwise Acquired ha	Acreage Tax Total ha	Forfeitures ha
1979	.....	0.4	2 075	2 076	22 663
1980	0.4	.....	2 480	1	15 783
1981	1.20	0.16	703	1.36	3 600
1982	492	.....	722		6 275
1983	661	.....			4 047

USE OF ACQUIRED LANDS (Areas in Hectares, Years ending March 31)

Year	Provincial Parks ha.	Lands General ha.	Sport Fisheries ha.	Wildlife Mgmt. ha.	Timber Mgmt. ha.	Total ha.	Interim Property Mgmt.
1975	4,815	87	0.80	384		5,286	
1976	2,143	12	6	163		2,325	
1977	630	140	81	248	2	1,101	35,424
1978	548	4.04		111	4,332	4,995	36,095
1979	2,028	79			3	2,110	34,715
1980	2,350	109	16		5	2,480	35,008
1981	549		51	3	100	703	34,692
1982	588	32	47	24	31	722	26,633
1983(82/83)	261	56	146	213	726	1,402	25,113

MINING LANDS in years ending March 31

Year	Patents		Renewals		Leases New	
	No.	ha	No.	ha	No.	ha
1979	137	2 049	53	3 923
1980	185	5 327	94	11 185
1981	141	2 302	60	7 704
1982	77	1 226	68	6 446
1983	85	1 937	80	9 230

Year	Surface Rights		Licences of Occupation		Quit Claim Deeds and Regrants	
	No.	ha	No.	ha	No.	ha
1979	1	37	2	27 694	142	3 764
1980	2	90	1	16	297	7 538
1981	....	....	5	147 191	38	624
1982	....	....	3	366 705	49	1 157
1983	....	....	1	864	45	1 196

PROSPECTING ACTIVITIES in years ending March 31

Year	Mining Claims			Assessment		Quarry	Miners Licences	
	Recorded	Cancelled	In Good Standing	Work (Days)	Permits Issued	Issued	Renewed	
1979	13,041	16,444	37,669	752,155	1,178	991	1,723	
1980	16,875	10,952	36,092	437,619	1,301	1,347	1,854	
1981	36,535	11,279	72,809	972,469	1,188	2,130	2,660	
1982	26,075	17,709	76,125	1,565,197	1,520	1,871	2,796	
1983	55,942	24,395	113,167	1,516,226	1,449	2,040	3,190	

1982/83 MNR CAPITAL ROADS PROGRAM

REGION	No. of kms Con./Recon.	No. of Bridges Constructed	Expenditures (\$000s)	No. of kms Maintained	Expenditures (\$000s)
NORTHERN ONTARIO					
Northwestern.....	17.8	—	268.3	839.0	337.9
North Central.....	38.6	6	972.7	1,585.7	811.3
Northern.....	171.6	—	1,031.3	1,345.8	642.9
Northeastern.....	77.0	1	603.2	1,984.1	533.6
Sub Totals	305.0	7	2,875.5	5,754.6	2,325.7
SOUTHERN ONTARIO					
Algonquin.....	3.4	—	10.5	1,007.7	410.2
Eastern.....	22.8	—	141.1	610.6	175.8
Central.....	4.3	—	10.5	183.6	80.9
Southwestern.....	—	—	—	189.9	57.7
Sub Totals	30.5	—	162.1	1,991.8	724.6
PROVINCIAL TOTALS	335.5	7	3,037.6	7,746.4	3,050.3

Program includes: Recreational access, forest access, cottage access, ministry service, public transport, agreement forest, private forest road maintenance agreements and fuelwood access roads.

1982/83 NORTHERN ONTARIO RESOURCES TRANSPORTATION COMMITTEE - DIRECT PROGRAM (MNR)

REGION	No. of kms Con./Recon.	No. of Bridges Constructed	Expenditures (\$000s)	No. Of kms Maintained	Expenditures (\$000s)	No. of kms Winter Road Maint.	Expenditures (\$000s)
Northwestern	19.7	—	2,032.3	155.0	127.0	191.0	78.5
North Central	3.2	1	80.2	57.0	9.0	—	—
Northern	36.1	1	1,208.4	—	—	—	—
Northeastern	—	—	—	22.5	13.1	—	—
TOTAL	59.0	2	\$3,320.0	234.5	149.1	191.0	\$78.5

1982/83 NORTHERN ONTARIO RESOURCES TRANSPORTATION COMMITTEE - INDIRECT PROGRAM (COMPANY)

Northwestern	—	1	8.4
North Central	3.4	—	54.9
Northern	—	—	—
Northeastern	—	—	—
TOTAL	3.4	1	63.3

1982/83 FOREST MANAGEMENT SUBSIDIARY AGREEMENT PROGRAM★

CROWN PROJECTS REGION	No. of kms Con./Recon.	No. of Bridges	Expenditures (\$000s)
Northwestern	53.4	2.0	4,248.0
North Central	67.4	2.5	5,307.2
Northern	17.5	1.0	2,188.5
Northeastern	22.3	1.0	2,739.0
TOTAL	160.6	6.5	\$14,482.7

COMPANY PROJECTS REGION	No. of kms Constructed	No. of Bridges	Expenditures (\$000s)
Northwestern	—	—	—
North Central	30.1	2	2,993.0
Northern	17.7	—	605.1
Northeastern	1.8	2	647.0
TOTAL	49.6	4	\$4,245.1

TOTAL PROGRAM	210.2	10.5	\$18,727.8
★F.M.S.A. Program is co-funded by the federal and provincial governments.			

1982/83 FOREST MANAGEMENT AGREEMENT PROGRAM★

(Partially Funded by BILD)

REGION	No. of kms Con./Recon.	Expenditures (\$000s)	No. of kms Maintained	Expenditures (\$000s)
Northwestern	24.5	315.6	75.8	29.9
North Central	191.4	3,106.1	218.1	11.2
Northern	40.5	3,418.6	191.8	108.5
Northeastern	77.6	1,551.1	35.2	13.8
TOTAL	334.0	8,391.4	520.9	163.4

★F.M.A. Program is funded in accordance with agreements between MNR and forest companies.

**1982/83 RESOURCE ACCESS PROGRAM SUMMARY
MNR ROAD & BRIDGE CONSTRUCTION & MAINTENACE**

Crown	Regular Program	N.O.R.T. Program	F.M.S.A. Program	F.M.A. Program	Totals
Kms of Road					
Con./Recon.....	335.5	59.0	160.6	—	555.1
7 Bridges		2 Bridges	6.5 Bridges	—	15.5 Bridges
Expenditures.....	3,037.6	3,320.9	14,482.7	—	20,841.2
Kms of Road					
Maintained.....	7,746.4	234.5	—	—	7,980.9
Expenditures.....	3,050.3	149.1	—	—	3,199.4
Kms of Winter					
Road Maintained	—	191.0	—	—	191.0
Expenditures.....	—	78.5	—	—	78.5

**ROADS & BRIDGES CONSTRUCTED & MAINTAINED
BY COMPANIES UNDER AGREEMENT**

Company	N.O.R.T. Program	F.M.S.A. Program	F.M.A. Program	Totals
Kms of Road				
Con./Recon.....	3.4	49.6	334.0	387.0
1 Bridge		4 Bridges	—	5 Bridges
Expenditures.....	63.3	4,245.1	8,391.4	12,699.8
Kms of Road				
Maintained.....	—	—	520.9	520.9
Expenditures	—	—	163.4	163.4

LANDS AND WATERS GROUP

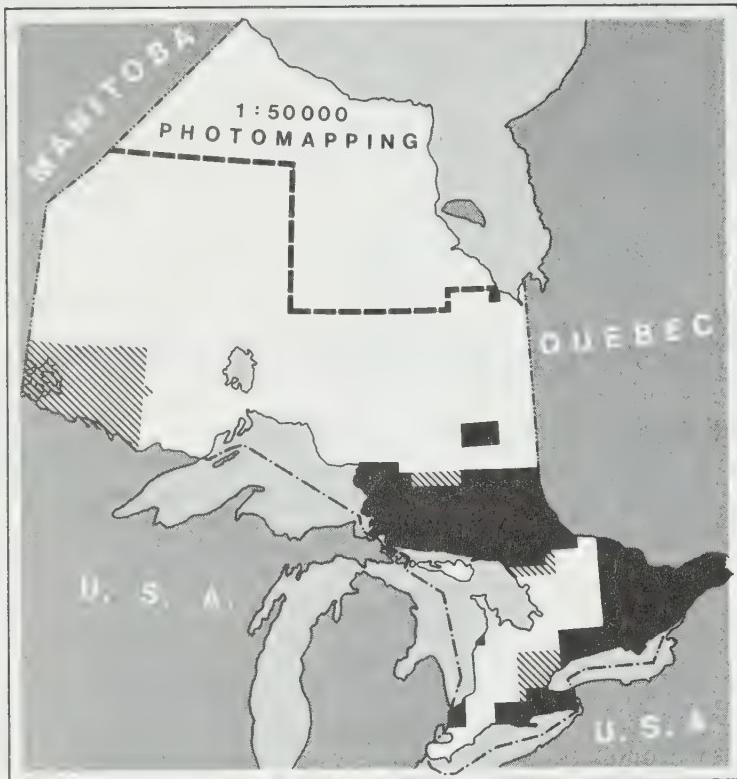
SURVEYS AND MAPPING BRANCH

Room W-6602, Main Office Telephone (416) 965-6225

Surveyor General, Branch Director	J. H. O'Donnell.....	W-3348	6225
Surveying Services, General Manager	S. B. Panting	W-3446	4538
Surveys Manager.....	D. E. Norris.....	W-3449	2714
Asst. Mgr. Examinations.....	J. E. Hietala.....	W-3444	2714
Asst. Mgr. Technical Services.....	J. A. MacIntosh.....	W-3447	2714
Survey Records Information.....	D. E. Jeanes.....	W-3420	1416
Geographical Referencing Manager.....	J. H. Kerr.....	W-3422	4538
Mathematical Adjustments, Head	Z. Jiwani.....	W-3422	4538
Control Survey Analyst	K. M. Kelly.....	W-3422	4789
Mapping Services, General Manager	C. T. Osborne	W-2545	4941
Cartographic Services.....	F. W. Dawson	W-2540	4743
Drafting Services Manager	D. W. Robeson	W-2540	1823
Nomenclature Services Manager.....	M. B. Smart	W-2601	6515
Basic Mapping Manager	B. Jackson	W-2540	1208
Chief Contract Monitor	R. Audas	W-2640	0293

Ontario Centre for Remote Sensing
880 Bay Street, Toronto, Ontario M5S 1Z8

Associate Director	V. Zsilinszky .....	.....	8411
Chief Scientist	S. Pala .....	.....	8411
Senior Scientist	A. Boissonneau .....	.....	8411
Senior Scientist	A. Jano .....	.....	8411
Staff Scientist	R. Mussakowski .....	.....	8411
Staff Scientist	T. Ellis .....	.....	8411
Staff Scientist	Vacant .....	.....	8411
Research Officer, Engineering	V. Singhroy .....	.....	8411
Senior Remote Sensing Technician	J. Narraway .....	.....	8411
Airborne Program Co-ordinator	I. Ross .....	.....	8411
Airborne Program Specialist	B. Fitzpatrick .....	.....	8411
Photo Research Lab Supervisor	D. Klimes .....	.....	8411



MAPPING SERVICES ONTARIO BASIC MAPPING

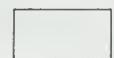
1:20 000 , 1:10 000 scales



Completed .



In progress .



To be mapped .

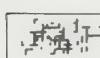
1:2 000 scale

143 Communities completed .
40 Communities in progress .

SURVEYING SERVICES



Area of original
township surveys .



Township boundaries
resurveyed / restored .

9188 kms completed .



SURVEYING SERVICES
 Township Boundary Resurvey Program

Year	Km Resurveyed
1961-62	334.34
1962-63	277.93
1963-64	276.89
1964-65	604.39
1965-66	601.94
1966-67	466.07
1967-68	419.07
1968-69	442.59
1969-70	424.87
1970-71	494.71
1971-72	529.47
1972-73	388.93
1973-74	306.95
1974-75	395.11
1975-76	277.82
1976-77	324.82
1977-78	328.31
1978-79	494.39
1979-80	525.29
1980-81	461.72
1981-82	407.57
1982-83	405.30
Total	9,187.90

CROWN LAND SURVEY PLAN EXAMINATIONS

Year	No. Plans Examined
1978-79	270
1979-80	317
1980-81	323
1981-82	641
1982-83	791

DESCRIPTIONS PREPARED

Year	No. Descriptions Prepared
1978-79	897
1979-80	903
1980-81	779
1981-82	1,052
1982-83	1,585

PROVINCIAL HORIZONTAL CONTROL SURVEY

Data Base COSINE

Year	Stations Loaded
1981-82	10,000
1982-83	13,000
Total	23,000

PRECISE CALIBRATION BASELINE INSTALLATION

Year Installed	Baseline Name
1977-78	Mississauga
1979-80	Scarborough
1980-81	Burlington
1981-82	London
1982-83	Belleville

LAND AND WATERS GROUP

OFFICE OF INDIAN RESOURCE POLICY

Room 6625, Whitney Block Telephone (416) 965-6045

Director	E. G. Wilson	W-6625.....	6045
Secretary	C. A. Ritchie.....	W-6623.....	6045
Indian Resource Policy Adviser	P. R. Wyatt	W-5646.....	5201
Indian Resource Policy Adviser	S. J. Houston	W-5647.....	5201
Senior Indian Land Claims Researcher	D. T. McNab	W-5644.....	5201
Indian Land Claims Researcher.....	L. C. Hansen.....	W-5643.....	5201
Indian Land Claims Researcher.....	D. J. Bourgeois	W-5642	5201
Clerk Stenographer	P. Williams	W-5641.....	5201

LANDS AND WATERS GROUP

CONSERVATION AUTHORITIES AND WATER MANAGEMENT BRANCH

Section 6, 5th Floor, Main Office Telephone (416) 965-6285

Branch Director	M. R. Garrett.....	W-5620.....	6287
Manager, Conservation Authorities Section	R. D. Hunter.....	W-5620.....	6285
Manager, Technical Services	R. B. Chang.....	W-5620.....	6295
Supervisor, Program Implementation and Evaluation	J. J. McFadden	W-5620.....	6285
Supervisor, Water and Related Land Management	G. S. Sardesai	W-5620.....	6275
Policy Analyst.....	(Vacant)	W-5620.....	6281
Head, Water Basin Studies.....	R. P. Milligan	W-5620.....	6275
Head, Conservation and Recreation Land Management Program	R. J. Dickie	W-5620.....	1573
Financial Services Co-ordinator.....	(Vacant)	W-5620.....	7694
Supervisor, Streamflow Forecast Centre	P. N. Gryniewski	W-5620.....	6292
Flood Emergency Co-ordinator.....	L. J. Balogh	W-5620.....	6277
Head, Model Development	J. Y. Ding	W-5620.....	6220
Head, Coastal Zone Management.....	D. L. Strelchuk.....	W-5620.....	1271
Supervisor, Administrative Support Services	Mrs. D. Green.....	W-5620.....	6270
Youth Programs Co-ordinator	Mrs. S. E. Court.....	W-5620.....	1799
Library	Miss A. Perrigo	W-5620.....	4481

**GRANTS TO CONSERVATION AUTHORITIES
UNDER THE CONSERVATION AUTHORITIES ACT** in years ending March 31

Year	Administration	Water and Related Land Mgmt	Conservation and Recreation Land Mgmt	Lake Ontario Waterfront	Total
1980	\$4,756,983	\$20,466,353	\$3,404,736	\$1,530,000	\$30,158,072
1981	5,202,220	27,724,128	3,436,411	1,500,342	37,863,102
1982	5,517,581	26,496,443	2,953,315	1,469,780	36,437,119
1983	6,591,399	26,693,614	3,130,218	1,574,000	40,989,231

PLANS REVIEWED

**PLAN INPUTS AND
SPECIAL LAND
USE PROJECTS**

Region	Subdivision	Severance	Other	Official Plans Amendments	Plan Inputs	Special Land Use Projects (Ongoing)	Environmental Assessments
				Zoning By-Laws			
Northeastern	21	373	81	194	15	5	14
Eastern	64	1,051	125	610	55	6	7
Northwestern	19	84	19	57	31	26	19
North Central	7	126	7	94	7	4	7
Northern	14	93	17	78	32	1	10
Algonquin	14	816	206	621	10	5	5
Central	302	2,748	463	2,347	231	24	41
Southwestern	57	1,521	818	1,603	110	14	19
	498	6,812	1,733	5,604	491	85	122

AVIATION AND FIRE MANAGEMENT CENTRE

Box 310, Sault Ste. Marie, Ontario P6A 5L8

Telephone (705) 942-1800 Telex 067-77166, 067-77134

Director	J. F. Goodman	(705) 942-1800
Finance and Administration Supervisor	W. A. Sinclair	1800
Purchasing Officer	E. M. Esson	1800
Fire Management Section	R. G. Elliott, Asst. Dir	1800
Provincial Fire Operations	J. G. Minor, Spvr	1800
Research & Development	R. J. Drysdale, Spvr	1800
Fire Management Education Co-ordinator	R. B. Little	1800
Chief Pilot	A. L. Stewart	1800
Maintenance Superintendent	G. Willoughby	1800
Assistant Supt. Maintenance		
Airframe Section	S. J. Denley	1800
Engine Section	P. F. Holder	1800
Quality Control Inspector	D. J. Moffat	1800
Communications Supervisor	J. Scotland	1800
Flight Ops. Officer, Malton Airbase	W. C. Clarke	(416) 678-1172

FOREST FIRE RECORD

Areas in hectares

Year	Damage	Private Property Damage	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
1917	\$....	\$....	....	....	155,466	1,110	140
1918	....	....	....	....	12,210	965	12
1919	....	....	....	....	373,186	1,780	210
1920	....	....	....	....	145,222	1,287	113
1921	....	....	....	....	303,326	1,269	239
1922	....	....	....	....	140,099	1,021	151
1923	....	....	....	....	857,995	1,343	639
1924	....	....	....	....	55,091	851	69
1925	....	....	....	....	76,705	1,149	67
1926	....	....	26,664	9,100	35,764	1,110	32
1927	....	....	9,216	5,248	14,464	924	16
1928	....	....	39,026	1,598	40,624	536	76
1929	....	....	246,353	6,836	253,189	1,550	163
1930	....	....	144,688	143,371	288,059	1,402	206
1931	....	....	42,843	13,120	55,963	1,851	30
1932	....	....	253,558	21,232	274,790	2,073	133
1933	....	....	131,537	10,086	141,623	1,919	74
1934	....	....	64,891	15,493	80,384	1,568	51
1935	....	....	74,090	27,309	101,439	1,309	77
1936	....	....	466,957	44,741	511,698	2,264	226
1937	....	....	81,701	9,251	90,952	1,453	63
1938	....	....	38,918	17,028	55,946	1,292	43
1939	....	....	10,558	1,218	11,776	961	12
1940	....	....	40,869	8,346	49,215	1,014	49
1941	....	....	109,991	159,751	269,742	1,265	213
1942	....	....	31,448	14,571	46,019	1,224	38
1943	....	....	13,543	7,831	21,374	624	34
1944	....	....	29,635	38,713	68,348	1,137	60
1945	....	....	7,283	12,348	19,631	966	20
1946	....	....	18,072	12,995	31,877	1,739	18
1947	....	....	15,416	18,591	34,007	1,393	24
1948	....	....	345,917	65,806	411,723	2,036	202
1949	....	....	16,427	7,880	24,307	1,834	13
1950	\$ 55,148	\$103,682	5,343	9,541	14,884	985	15
1951	389,447	56,389	39,118	1,854	40,972	904	45
1952	29,504	31,347	2,940	2,087	5,027	1,095	4
1953	393,874	81,778	18,016	5,782	23,508	1,520	16
1954	406,241	15,650	14,615	7,518	22,133	881	25
1955	3,591,680	184,940	150,118	10,309	160,427	2,252	71
1956	3,068,152	22,319	89,768	1,777	91,545	1,017	90
1957	463,059	113,751	9,814	9,065	18,879	1,671	11
1958	311,503	97,036	10,337	4,496	14,833	1,558	10
1959	22,041	20,757	1,044	1,093	2,137	1,029	2
1960	438,094	56,442	11,813	888	12,701	956	13
1961	31,989,802	152,639	477,894	1,549	479,433	1,305	367
1962	74,748	99,165	3,069	2,517	5,586	1,521	4
1963	706,888	39,932	16,467	6,251	22,718	1,885	12

FOREST FIRE RECORD

Areas in hectares

Year	Damage	Private Property Damage	Area Burned Over			Number of Fires	Area per Fire
			Crown	Private	Total		
1964	\$ 500,296	\$ 19,792	9,090	2,291	11,381	1,829	6
1965	386,850	254,105	6,068	1,987	8,055	1,218	6
1966	71,521	49,457	3,421	2,413	5,834	1,921	3
1967	1,353,919	87,638	23,768	1,930	25,698	1,465	17
1968	4,174	54,146	1,078	2,751	3,829	1,219	3
1969	134,756	4,623	1,813	669	2,482	901	3
1970	1,323,041	28,815	....	....	23,537	1,239	18
1971	462,064	75,875	....	....	14,649	1,790	8
1972	1,081,876	47,446	....	....	32,029	1,604	20
1973	11,944	121,900	2,417	1,190	3,607	1,111	3
1974	12,063,428	239,384	522,641	1,346	523,987	1,625	323
1975	683,726	340,414	11,226	5,630	16,856	3,146	5
1976	26,839,738	930,514	536,529	7,578	544,107	3,985	136
1977	11,190,900	252,565	411,752	4,564	416,316	2,049	203
1978	165,267	139,386	7,040	483	7,523	940	8
1979	2,310,161	60,032	63,322	393	63,715	1,564	41
1980	72,094,096	3,254,443	524,893	35,847	560,740	1,779	315
1981	9,171,418	60,906	173,479	5,994	179,473	1,656	108
1982	116,695	71,068	2,555	1,337	3,892	1,396	3

1982 FOREST FIRES BY DISTRICT

District	Number of Fires	Hectares Burned Over	ha per Fire
Dryden	18	1.7	1
Fort Frances	29	284.1	9.8
Ignace	18	8.8	.5
Kenora	52	99.7	1.9
Red Lake	42	271.2	6.5
Sioux Lookout	60	973.5	16.2
Atikokan	27	5.7	.2
Geraldton	31	115.5	3.7
Nipigon	24	12.8	.5
Terrace Bay	10	53.7	5.4
Thunder Bay	76	64.1	.8
Chapleau	37	12.0	.3
Cochrane	11	329.3	29.9
Gogama	22	8.3	.4
Hearst	9	3.0	.3
Kapuskasing	11	12.1	1.1
Kirkland Lake	20	4.2	.2
Moosonee	1	40.5	40.5
Timmins	10	12.2	1.2
Blind River	26	11.1	.4
Espanola	25	11.9	.5
North Bay	71	503.5	7.1
Sault Ste. Marie	16	3.9	.2
Sudbury	231	384.4	1.7
Temagami	48	21.9	.5
Wawa	26	32.9	1.3
Algonquin Park	52	16.8	.3
Bancroft	29	53.3	1.8
Bracebridge	37	23.4	.6
Minden	36	52.6	1.5
Parry Sound	78	57.2	.7
Pembroke	72	71.8	1.0
Carleton Place	21	40.5	1.9
Tweed	83	192.7	2.3
Huronia	5	5.3	1.1
Lindsay	19	74.5	3.9
Owen Sound	13	21.7	1.7
TOTAL	1,396	3,891.8	2.8

1982 FOREST FIRES BY MONTH

Month	Number of Fires	Hectares Burned Over	ha per Fire
April	252	1,317.5	5.2
May	278	613.3	2.2
June	134	162.1	1.2
July	354	1,641.0	4.6
August	341	143.4	.4
September	26	2.7	.1
October	11	11.8	1.1
TOTAL	1,396	3,891.8	2.8

DETECTION OF FOREST FIRES

Agencies	1978	1979	1980	1981	1982
Towers.....	0	0	1	0	0
Ministry Aircraft.....	136	420	484	394	230
Total Organized Detection.....	136	420	485	394	230
Public.....	750	875	1,026	1,062	1,038
Other Aircraft.....	54	269	268	200	128
Total Random Detection.....	804	1,114	1,294	1,262	1,166
Total Fires.....	940	1,564	1,779	1,656	1,396
Percentage Organized Detection	14	27	27	24	17

PROSECUTIONS

Actions re Forest Fires	1978	1979	1980	1981	1982
Prosecutions.....	27	24	178	46	72
Convictions.....	27	14	171	40	68

CAUSES OF FOREST FIRES - I

GENERAL CAUSES	1978	1979	1980	1981	1982
Recreation	359	407	239	493	517
Resident	91	90	232	150	224
Incendiary.....	35	24	34	59	39
Railways	147	169	233	153	160
Industry (Forest).....	19	21	26	36	11
Industry (Other).....	21	28	15	38	22
Miscellaneous (Known).....	87	101	160	209	156
Unknown.....	16	28	47	33	30
Lightning.....	165	696	793	485	237
Total Fires.....	940	1,564	1,779	1,656	1,396

CAUSES OF FOREST FIRES - II

SOURCE OF IGNITION	1978	1979	1980	1981	1982
Smoking Materials.....	171	212	173	285	323
Camp Fires.....	186	186	117	251	243
Matches.....	80	65	87	109	105
Fireworks.....	1	1	—	2	1
Explosives	—	—	—	2	—
Fusee.....	2	12	4	10	9
Prescribed Burning	2	3	—	3	3
Dump Ashes, Coals	5	7	7	6	9
Burning Grass	17	23	74	46	73
Burning Brush	39	22	35	36	37
Burning Rubbish	15	13	38	17	44
Burning Garbage Dump	8	18	33	15	23
Burning Bulldozed Pile.....	—	2	3	4	—
Burning Sawdust Pile.....	—	2	1	2	2
Burning Ties	11	10	14	16	19
Burning Right-of-Way	3	5	9	10	20
Locomotive, Diesel.....	39	37	48	38	27
Locomotive, Steam.....	—	—	—	—	—
Brake Shoe.....	66	64	101	47	44
Hot Box.....	—	2	6	2	—
Power Saw.....	1	1	7	7	2
Mechanical Equipment	30	18	34	49	34
Power Line (Short).....	15	15	17	21	15
Sparks from Chimney.....	—	3	2	—	2
Sparks from Burner.....	1	3	2	1	1
Structural Fires	11	9	10	11	11
Miscellaneous (Known).....	19	22	51	54	23
Unknown.....	54	113	114	129	91
Lightning.....	164	695	792	483	235
Total Fires.....	940	1,564	1,779	1,656	1,396

CAUSES OF FOREST FIRES - III

RESPONSIBLE GROUPS	1978	1979	1980	1981	1982
RECREATION					
Fishermen.....	110	138	81	184	158
Hunters.....	69	13	4	25	16
Canoeists.....	17	27	13	23	45
Campers.....	55	40	41	48	61
Picnickers.....	7	11	10	10	14
Berry Pickers.....	48	98	39	105	141
TRAVELLERS					
Car Passengers.....	38	39	70	96	76
Hikers.....	17	22	10	28	25
Train Passengers.....	—	2	—	1	—
Guided Parties.....	1	—	1	2	2
RESIDENTS					
Farmers.....	14	11	27	18	26
Rural Residents.....	47	47	116	88	138
Urban Residents.....	4	5	15	8	12
Private Cottagers.....	27	18	45	32	34
Resort Owners.....	1	1	—	5	2
Indians (on Reserves).....	5	15	21	16	14
VOCATION					
Trappers.....	2	—	—	1	—
Prospectors.....	—	2	—	2	1
Timber Cruisers.....	—	—	—	—	—
Survey Parties.....	—	2	—	—	—
Military.....	1	—	—	1	1
EMPLOYEE OF					
Woods Industry.....	16	21	21	31	12
Mining.....	1	1	2	9	1
Pipeline.....	—	—	—	—	—
Hydro.....	4	5	3	3	2
Telephone.....	1	—	1	1	—
Highway or Road.....	—	3	2	1	1
R.R. Section Crew.....	15	8	24	22	39
R.R. Train Crew.....	21	9	32	24	24
R.R. Work Crew.....	111	147	167	102	94
Other Industry.....	9	6	12	17	12
Natural Resources.....	5	7	10	34	17
Other Prov. Government.....	1	—	—	1	—
Federal Government.....	1	1	—	—	—
Municipality.....	—	8	5	3	6
MISCELLANEOUS					
Children.....	48	49	60	77	68
Youth Camps.....	—	—	1	3	—
Miscellaneous (Known).....	28	26	50	40	24
Unknown.....	51	87	103	112	94
Total Human-Caused Fires	775	869	986	1,173	1,160
Percentage of All Fires.....	82	56	55	71	83

AIR SERVICE SUMMARY — I — Hours flown in years ending March 31

Year	Fire Ranging	Timber	Fish and Wildlife	Surveys	Lands	Parks
1979	3,340	1,290	4,731	182	735	662
1980	2,000	1,650	2,500	345	1,000	600
1981	3,000	1,674	2,473	342	1,065	609
1982	1,973	1,760	2,600	360	1,120	640
1983	3,037	1,670	2,460	425	1,217	530
1924-83 Total	242,303	40,593	112,111	3,875	17,612	14,286

Year	Research	Inter Ministry	Photo	Mercy Flights	Miscellaneous	Total
1979	105	2,652	578	25	364	14,633
1980	400	1,550	550	30	4,525	15,150
1981	380	1,372	621	19	3,662	15,217
1982	400	1,647	656	58	4,789	16,003
1983	456	1,885	640	13	2,855	15,188
1924-83 Total	10,339	33,570	7,542	1,894	175,617	659,742

AIR SERVICE SUMMARY — II — in years ending March 31

Year	Mercy Flights	Passengers Carried	Loads Carried Tons	Metric Tons
1979	3	27,937	806.74	888
1980	13	27,336	1,023.04	1,132
1981	10	25,480	801.06	883
1982	28	28,485	988.00	1,089
1983	8	30,267	2,069.17	2,280

ADMINISTRATION DIVISION

Room W-6345, Main Office

Telephone (416) 965-7106

Assistant Deputy Minister	M. Mogford	W-6345 .....7106
Secretary	Mrs. E. Lynch.....	W-6345 .....7106
Finance, Planning & Evaluation Group Executive Co-ordinator.....	D. M. Wood.....	W-6347 .....6148
Affirmative Action Program Co-ordinator	M. Paul	W-6441 .....5663

ADMINISTRATION DIVISION

COMMUNICATIONS SERVICES BRANCH

Room W-5340, Main Office

Telephone (416) 965-2756/965

Branch Director	T. E. Coleman	W-5352 .. 5-3315
Secretary	Miss M. Goh	W-5352 .. 5-3315
Senior Communications Planner	G. Merchant (acting)	W-5343 .. 5-2758
Administrative Services Section	R. Urquhart, Spvr	W-5340 .. 5-2756
Information Services Section	Ms. V. Chavossy, Mgr	W-5351 .. 5-2756
French Language Policy	R. Bedard	W-5340 .. 3-2385
French Language Writer	F. Blais	W-5340 .. 3-2385
Media & Editorial Services Unit	K. Robertson, Spvr	W-5353 .. 3-2385
Writing Co-ordinator	Ms. M. Welch	W-5355 .. 3-2385
Media Relations Officer	C. Ross	W-5340 .. 5-2756
Magazine Editor	Mrs. A. Erland	W-5343 .. 5-2756
Senior Travel Counsellor	Ms. C. Mahoney (acting)	W-3304 .. 5-3081
Creative Services Section	W. Yetman, Mgr	W-5445 .. 5-2780
Secretary	Miss C. Klemens	W-5440 .. 5-2780
Exhibits & Displays Unit	Mrs. E. H. Brown, Spvr	W-5440 .. 5-2780
Exhibits Assistant	Mrs. S. Cole	W-5440 .. 5-2780
Publications Services Unit	J. R. Grayston (acting)	W-5440 .. 5-2780
Publications Editor	Ms. M. Reid	W-5440 .. 5-2780
Graphic Designer	A. Gokhan	W-5440 .. 5-2780
Audio Visual Unit	L. Walton, Spvr. (acting)	W-5450 .. 3-1325
Photographers	W. Lanning, Mgr	W-5450 .. 3-1325
Photo Library	Miss H. Bickle	W-5450 .. 3-1325
Film & Audio-visual Consultant	Miss P. Hancock	W-5341 .. 5-2758
Advertising & Marketing Unit	L. Bondy	W-5444 .. 3-1325
Marketing Officer	Ms. P. Purves, Co-ordinator ...	W-5441 .. 3-2956
	G. Houlahan	W-5441 .. 3-2957

ADMINISTRATION DIVISION

PERSONNEL SERVICES BRANCH

Room W-4520, Main Office Telephone (416) 965-3825

Branch Director	H. B. Farrant	W-4530 3825
Secretary	P Nurse	W-4520 3825
M.O.S.S. Unit Manager	E Polonoski	W-4525 7240
Staffing Policy & Branch Administration Manager	Mrs. E. Cardwell	W-4530 2707
Human Resources, Planning & Development Manager	R. Brayshaw	W-4422 1468
Compensation & Staff Relations Manager	D. Nagel	W-4528 0709
Occupational Health & Safety Section Manager	A. B. Shipston	W-5645 2735

PERSONNEL SERVICES BRANCH

Total Staff

March 31, 1983	Regular	Probationary	Unclassified	Total
Main Office	837	40	318	1,195
Field Offices.....	3,185	101	1,062	4,348
TOTAL.....	4,022	141	1,380	5,543
Total Number of Positions	4,398			
Total Number of Staff	4,163			
Total Number of Vacancies.....	235			
New Employees Hired 1982/83.....	160			
Management Staff	1,038			
Executive Staff.....	47			
Bargaining Unit Staff	3,078			
TOTAL.....	4,163			
Deceased	12			
Transferred	17			
Released.....	1			
Resigned.....	73			
Dismissed	1			
Retired	78			
Miscellaneous.....	1			
TOTAL.....	183			

STAFF SUMMARY

Staff at March 31	1978	1979	1980	1981	1982	1983
Regular Staff.....	3,614	3,919	4,088	4,060	4,093	4,022
Probationary Staff.....	250	456	341	322	209	141
Unclassified Staff.....	2,051	1,698	1,938	1,636	1,565	1,380
TOTAL.....	5,915	6,073	6,367	6,018	5,867	5,543
Main Office Staff.....	906	930	917	880	863	877
Field Office Staff.....	2,958	3,445	3,512	3,502	3,439	3,286
New Employees.....	250	862	316	306	140	160
Deceased.....	9	8	11	10	9	12
Superannuated.....	95	97	89	99	45	78
Transferred.....	49	32	38	1	36	17
Resigned.....	91	146	199	165	81	73
Dismissed.....	1	0	3	3	1	1
Released.....	1	4	1	5	0	1
Miscellaneous.....	0	0	0	29	0	1
TOTAL SEPARATIONS.....	246	287	341	312	172	183
Junior Rangers	1,918	1,968	1,800	1,736	1,736	1,636

MANAGEMENT GROUPS

Administrative.....	.....	.....	.....	.....	.....	234
Clerical.....	.....	.....	.....	.....	.....	13
Operational.....	.....	.....	.....	.....	.....	14
Professional.....	.....	.....	.....	.....	.....	286
Technical.....	.....	.....	.....	.....	.....	491
TOTAL.....	.....	.....	.....	.....	.....	1,038

Executive Compensation Plan — 47

BARGAINING UNIT CATEGORIES

Administrative Services.....	.....	.....	.....	.....	.....	76
Scientific & Professional Services.....	.....	.....	.....	.....	.....	456
Technical Services.....	.....	.....	.....	.....	.....	1,346
Office Services.....	.....	.....	.....	.....	.....	388
Clerical Services.....	.....	.....	.....	.....	.....	487
Maintenance Services.....	.....	.....	.....	.....	.....	257
General Operational Services.....	.....	.....	.....	.....	.....	68
TOTAL.....	.....	.....	.....	.....	.....	3,078

ADMINISTRATION DIVISION

ADMINISTRATIVE SERVICES BRANCH

Room W-5528, Main Office

Telephone (416) 965-2711

Branch Director	J. A. Queen.....	W-5528	2711
Administrative Technology	D. Waller, Chief.....	W-5526	4600
Analysis Unit.....	.....	W-5526	4600
Forms and Records Management .....	.....	W-5422	3822
Word Processing.....	.....	W-5533 ..	3-2265
Operations Analysis	R.E. Armstrong, Chief.....	W-5530	3317
Fleet & Insurance	L. Krol.....	W-5504	1255
Supply Analysis.....	L. Wright.....	W-5532	4600
Facilities Analysis	(Vacant).....	W-5520	4600
Contracting Specialist .....	.....	W-5531	4600
Services	T. Pierro, Chief.....	W-5529	4600
Purchasing .....	.....	W-5520	1601
Facilities Development	P. Coghill, Mgr.....	W-5423	4645
Facilities.....	J. Petersen.....	W-5423	4645
Accommodation Services	S. Fenton.....	W-5423	4645
Support Services	H. L. Bembridge, Mgr.....	W-5302	5134
Office Services .....	.....	W-5302	5134
Vehicle Equipment Officer	L. Burchat.....	W-5302	5134
Public Service Centre .....	.....	W-1640	6511
General Inquiry (MNR) .....	.....	.....	2000
(Whitney Block Info Booth) .....	.....	.....	.....
Central Supply Warehouse	D. Sibley, Spvr.....	.....	1286
(51 Esander Drive, Toronto) .....	.....	.....	.....
Conferences, Hospitality	M. D. Cantelon.....	W-5301	6166
Copy Centre .....	.....	W-5501	6790
Mail Services .....	.....	W-5310	2778
Telex & Telecopier .....	.....	W-5312	2784

VEHICLES AND EQUIPMENT IN SERVICE — in year ending March 31, 1983

Type	*Number in Operation
Subcompact Cars and Station Wagons	3
Compact Cars and Station Wagons.....	175
Full-size Cars and Station Wagons	94
Standard and Extended Pickups.....	788
Four-wheel Drive Vehicles	272
Crew Cabs	78
Passenger Vans and Personnel Carriers	136
Buses	8
Cab and Chassis — 10,000 GVW.....	93
Cab and Chassis — over 10,000 GVW.....	140
Cab and Chassis — specialized bodies	28
TOTAL.....	1,815
Motorcycles.....	49
Trailers (boat and equipment).....	985
Trailers (refrigerated)	26
Snowmobiles.....	598
Tractors	306

ADMINISTRATION DIVISION

LEGAL SERVICES BRANCH

Room W-6420, Main Office Telephone (416) 965-2748

Director	J. Shantora	W-6427	2748
Solicitors.....	D. Beck	W-6420	2748
	C. L. Cottle	W-6423	2748
	S. Houston	W-6420	2748
	B. G. Jones	W-6422	2748
	R. C. Kay	W-6428	2748
	L. A. Low	W-6425	2748
	J. M. Pounder	W-6420	2748
	J. Skala	W-6420	2748
	T. N. Trow	W-6426	2748

LEGAL SERVICES ending March 31, 1983

Regulations Prepared and Processed	Orders in Council	Legal Agreements
54	570	320

The above figures are approximate

LEGISLATION

The Acts administered by the Ministry are as follows:

LANDS AND WATERS GROUP

THE BEDS OF NAVIGABLE WATERS ACT (sometimes referred to as the "Cochrane Act") is declaratory legislation relating to title in the beds of navigable waters. It followed the decision in the 1911 case of Keewatin Power versus The Town of Kenora. By the Act, the beds are deemed not to have passed to the grantee of bordering Crown land in the absence of an express grant.

THE ONTARIO GEOGRAPHIC NAMES BOARD ACT provides for the establishment of a Geographic Names Board for Ontario having the duty to gather information respecting the names of places and geographical features, make recommendations thereon, collaborate with the Canadian Permanent Committee on Geographic Names, and provide information to government departments, etc. The Minister may approve a recommended name and thereupon it shall be used by all government departments and agencies in the preparation of maps and other publications.

THE ONTARIO HARBOURS AGREEMENT ACT, 1962-3, confirms on behalf of Ontario the agreement between Ontario and Canada establishing the harbours which were public harbours at Confederation, providing that mines and minerals therein are administered by Ontario and confirming grants and quit claims listed therein. The federal harbours are Amherstburg, Belleville, Brockville, Chatham, Collingwood, Fort William, Gananoque, Goderich, Kincardine, Kingston, Kingsville, Leamington, Oshawa, Owen Sound, Penetanguishene, Port Arthur, Port Burwell, Port Hope, Port Stanley, Prescott, Rondeau Bay, Sarnia, Sault Ste. Marie, Southampton, Toronto, Whitby and Windsor.

THE PUBLIC LANDS ACT provides for: (1) A Public Agricultural Lands Committee to recommend on agricultural lands and their settlement, replacing the regulations on this subject; (2) The disposition of Crown land for a variety of purposes by sale, lease or licence and by auction or tender; (3) The management of Crown land by the Ministry by zoning for land use, setting apart for public use, research, etc., and through agreements with municipalities on beaches and water lots; (4) The administration of roads on Crown lands including the designation of public forest roads and agreements with occupiers of private forest roads respecting the use by the public of private forest roads; (5) The administration and control of the construction and maintenance of dams; (6) The granting of water powers and privileges.

THE SURVEYORS ACT deals with the Association of Ontario Land Surveyors and the rules governing membership and conduct. The Minister or his appointee and the Surveyor-General are members of the Council of Management.

THE SURVEYS ACT defines the system of surveys and the rules for surveyors. The Minister orders surveys made on his volition or upon application to settle disputes or lost lines, etc., and hearing evidence, he confirms the surveys, with or without amendment. His decision is subject to appeal to a judge of the Supreme Court.

THE NORTH GEORGIAN BAY RECREATIONAL RESERVE ACT, 1962-3, establishes the North Georgian Bay Recreational Reserve and provides for the planning and development thereof and the appointment of a committee to advise the Minister thereon.

THE MINING ACT with respect to: the administration of public lands for mining purposes, the issuing of licences and leases relating to exploration and drilling for, and the production of, minerals and oil and natural gas; the staking and recording of mining claims; and the rights of licensees and lessees under the Act. An acreage tax is levied under this Act. (See under Mineral Resources Group).

THE BEACH PROTECTION ACT prohibits the removal of sand from the bed, bank, beach, shore or waters of any lake, river or stream in Ontario except under the authority of a licence issued under the Act. Licencees may be required to pay a fixed sum per yard of sand removed from property of the Crown.

THE CANADA COMPANY'S LAND ACT, 1922, empowers the Crown to sell and convey to purchasers of lands from the Canada Company the mineral rights in the lands.

THE LAKES AND RIVERS IMPROVEMENT ACT deals with: the construction, repair and use of dams; timber driving; and timber slide companies and tolls. The Minister is charged with the responsibility of settling disputes between conflicting users under certain circumstances. An officer may be appointed to regulate the use of waters or works.

THE CONSERVATION AUTHORITIES ACT provides for the establishment of conservation authorities for the purpose of establishing and undertaking in the area over which they are given jurisdiction, programs designed to further the conservation, restoration, development and management of natural resources other than gas, oil, coal and minerals.

FOREST RESOURCES GROUP

THE CROWN TIMBER ACT enables the granting of the following four types of licences to cut Crown timber: a licence based on a call for tenders; a licence to savage timber; a licence for areas that do not exceed 6475 hectares (160 acres); and a licence approved by Order in Council for large areas.

The Act also enables the Minister to enter into comprehensive forest management agreements with members of the forest industry to ensure that forests under the agreements are harvested and regenerated to produce successive crops of timber on a sustained yield basis.

Crown Management Units may be established under the Act and agreements entered into for the supply of Crown timber from such units. Under this arrangement, the party to the agreement does not have exclusive rights in a specific area but a licence is granted to him to fill his requirements for an operating season.

Crownables and area charge are fixed by the regulations.

One subject dealt with are forest management operating and annual plans; examination of scales and pricing of timber; licensing fees; penalties for wasteful practices; unauthorized cutting; removal of timber for scaling; and other violations and protection of the Crown's interests through seizure of timber and a statutory lien for Crown charges.

THE FORESTRY ACT (under this Act) (1) The Minister enters into agreements with landowners such as municipalities, conservation authorities and the National Capital Commission (Ottawa) to manage the forests areas; (2) Ministry tree nurseries are established and nursery stock is distributed; (3) Private foresters are established on private lands with the consent of the owner; (4) The Minister, with the approval of the Lieutenant Governor in Council, may establish programs for the encouragement of forestry. At present, a managed forest tax reduction program has been established by the Minister.

THE SETTLERS PULPWOOD PROTECTION ACT provides for the regulation of the sale and of the price of pulpwood by lumber mills.

THE SPRUCE PULPWOOD EXPORTATION ACT provides for the exportation under the authority of an Order in Council of manufactured article purchased from lands granted under special Acts which prohibit such export.

THE TREES ACT provides that, with the Minister's approval, municipalities may pass by-laws restricting and regulating the destruction of trees and appoint enforcement officers. Generally, by by-law, municipalities may acquire land for forestry purposes and enter into agreements with the Minister for the management of such lands and related matters.

THE WOODLANDS IMPROVEMENT ACT provides for the Minister to enter into agreements with owners of lands suitable for forestry purposes and situated in a private forest management area for the planting of nursery stock or stand improvement.

THE WOODMEN'S EMPLOYMENT ACT authorizes the appointment of inspectors and the making of regulations respecting conditions in lumber camps. It also provides that Crown timber licensees are responsible for the acts and omissions of their workers and subcontractors who carry out operations.

THE WOODMEN'S LEN FOR WAGES ACT provides a lien and a procedure to enforce such lien for persons performing labour on timber.

THE ALGONQUIN FORESTRY AUTHORITY ACT establishes a Crown corporation known as the Algonquin Forestry Authority to harvest Crown timber in Algonquin Provincial Park and public lands adjacent to the park; to sell the logs; and also to carry out such forestry, land management and other programs and projects as the Minister of Natural Resources authorizes.

THE FOREST TREE PEST CONTROL ACT provides for the control of outbreaks of forest tree insects and diseases on private lands.

MINERAL RESOURCES GROUP

THE MINING ACT with respect to the issuing and administration of exploratory licences and production leases for oil and natural gas on public lands in designated parts of Ontario; processing applications for exemptions from restrictions on foreign processing, refinery licences; and the regulation of mining operations conducted within Ontario except under Part IX. (Also see under Lands and Waters Group.)

THE PITS AND QUARRIES CONTROL ACT provides for the regulation of pit and quarry operations in designated parts of Ontario. Operations in designated areas must be licensed under the Act and are subject to periodic review to assure compliance with the provisions of the Act, the regulations and site plan.

THE PETROLEUM RESOURCES ACT sets forth licensing requirements for various aspects of oil and natural gas exploration, drilling and production and provides for the making of regulations respecting oil and gas conservation and the safe operation of drilling and production facilities.

THE MINING TAX ACT a revenue generating unit which offers incentives to mineral producers for exploration, production and processing in Ontario, imposes a profit tax on Ontario mines. The tax is assessed on the value of output of the mine at the pit's mouth determined in accordance with the provisions of the Act.

THE ONTARIO MINERAL EXPLORATION PROGRAM ACT provides incentives to encourage mineral exploration activities in the province by providing grants/tax credits equal to 25 per cent of eligible exploration expenses to prospectors, non-producing exploration companies and to individual investors and corporations not directly engaged in mining activities in order to stimulate the financing of mineral exploration.

THE INDUSTRIAL AND MINING LANDS COMPENSATION ACT provides for agreements between the owner or operator of a mine and the owner or lessee of any land for payment of compensation for any damage or injury resulting or likely to result to the land or to its use and enjoyment from the operation of the mine.

THE GAS AND OIL LEASES ACT sets out the procedure whereby a lessor under a gas or oil lease may, upon default by the lessee under the terms of the lease, obtain an order declaring the lease void.

OUTDOOR RECREATION GROUP

THE ENDANGERED SPECIES ACT provides for the conservation, protection, restoration and propagation of species of flora and fauna of the Province of Ontario that are threatened with extinction.

THE GAME AND FISH ACT deals with the management of wildlife resources, game animals, game birds (upland); fur-bearing animals, frogs; sale and rearing of game fish, and offences and enforcement. Regulations made under the Act establish open seasons for hunting and trapping, bag limits, Crown game preserves; the licensing of hunters, trappers, guides, persons operating game bird hunting preserves and persons selling game fish for stocking and human consumption, the regulating of dogs used in hunting, aircraft transporting hunters, and conduct of hunters (hunter safety), and farmer-hunter relations. The Game and Fish Hearing Board was established under the Act on November 15, 1973.

THE FISH INSPECTION ACT is complementary to the Federal Act.

THE FISHERIES ACT (CANADA). Ontario Fishery Regulations are made under this Act. They relate to open seasons for angling and commercial fishing and the licences required. The form of licences and the fees are prescribed under The Game and Fish Act.

THE FISHERIES LOAN ACT provides for loans to persons carrying on the business of commercial fishing or any other business dependent in whole or in part on the taking of fish from waters in which such taking has been prohibited by reason of the contamination of fish resulting from pollution of the water. Provision is made for federal-provincial agreements respecting the sharing of such loans.

THE FRESHWATER FISH MARKETING ACT (ONTARIO) complements the Freshwater Fish Marketing Act (Canada). Through these Acts and the federal-provincial agreement, the Freshwater Fish Marketing Corporation established under the Federal Act is the sole purchaser of commercial fish, as defined in the Federal Act, taken in that part of Ontario designated in the regulations, i.e., that part of Ontario westerly of longitude 86° except the Territorial District of Rainy River but including that part of Lake of the Woods in the Territorial District of Rainy River. Sales to and purchases by persons for their own consumption or for consumption by persons or animals in the course of the purchaser's business are excepted.

THE WILD RICE HARVESTING ACT prohibits the harvesting of rice on Crown land except under the authority of a licence.

THE WOLF DAMAGE TO LIVESTOCK COMPENSATION ACT, 1972, provides for payment of compensation to the owners of livestock killed or injured by wolves.

THE MIGRATORY BIRDS CONVENTION ACT. Open seasons for migratory birds are set under this Act.

THE PROVINCIAL PARKS ACT provides for the establishment of provincial parks and their management and for certain employees having the authority of the O.P.P. in a provincial park. Advisory committees for one or more provincial parks may be appointed by the Minister with the approval of the Lieutenant-Governor in Council.

Parks may be classified as a natural environment park, a nature reserve park, a wilderness park, a recreational park, a waterways park, or an historical park. Any of these classes may be zoned with controlled use in zones.

Mining is prohibited in provincial parks except as provided in the regulations. The regulations on mining were revoked in 1956 but rights and interest existing at that time were preserved.

Hunting is prohibited in provincial parks except as provided in the regulations under The Game and Fish Act or where the prohibition is removed by designation of the Lieutenant-Governor in Council under The Provincial Parks Act. This does not apply to the Townships of Bruton and Clyde (added to Algonquin Provincial Park by a Special Act).

Concession leases are granted under the Act. The province calls for tenders for buildings and facilities.

Vehicle admission charge is \$2.50 per day or \$25.00 for the season. Campsite charges are \$6.25 per day, or \$6.75 per day where comfort station facilities are available, and \$8.25 per day for campsites with electrical power. The charge for an extra car on a campsite is \$3.00 per day. On unorganized campsites in park interiors, the charge is \$4.00 per boat per day.

The above fees reflect those charged during peak periods. They may vary, depending on location and time of year.

This Act does not apply to any park under the management of the Niagara Parks Commission, the St. Lawrence Parks Commission or the St. Clair Parkway Commission.

THE WILDERNESS AREAS ACT was passed on March 26, 1959, to preserve areas having some unique feature. Development or utilization of the natural resources in an area more than 260 ha (640 acres) in size is not affected by this Act.

THE PARKS ASSISTANCE ACT provides for the establishment of parks in municipalities or in territory without municipal organization. The Minister may with the approval of the Lieutenant-Governor in Council make grants not exceeding 50 per cent of the cost of acquiring land and developing such parks. The parks established under the Act are to be maintained and operated in a manner complementary to provincial parks.

AVIATION AND FIRE MANAGEMENT CENTRE

THE FOREST FIRES PREVENTION ACT applies to the seven fire regions set up by regulation. The fire season, from April 1st to October 31st, may be extended by regulation. Fire permits are required during the fire season to (a) start fires in a fire region except for fires set out for cooking or warmth or to (b) ignite fireworks in or within 300m of a forest or woodland. Work permits are required at any time of the year for carrying on any logging, mining, industrial operation or clearing in or within 300 m of a forest or woodland. Areas may be established as restricted fire zones in which fires for cooking or warmth will be restricted to portable stoves and barbecues or as restricted travel zones in which a travel permit will be required except on public roads, cities, towns, villages, police villages, supervised camping grounds and water adjacent thereto. The Minister may declare emergency areas and may make orders for suppression and the safety and evacuation of persons. The Minister may enter into agreements with Canada, any province, any federal or provincial agency or municipality respecting the prevention and control of forest fires. The regulations establish fire precautions.

GENERAL

THE MINISTRY OF NATURAL RESOURCES ACT effective as of April 1, 1972, created the new Ministry of Natural Resources by amalgamating the former Department of Lands and Forests and Department of Mines and Northern Affairs and repealed the provisions of a number of Acts on which the departments depended for administrative authority. Effective October 30, 1973, the Act provides for the appointment of a Mining and Lands Commissioner and advisory committees.

THE LAKE OF THE WOODS CONTROL BOARD ACT, 1922, is complementary to a Federal Act of 1921. It deals with the regulation of the water levels of the Winnipeg River, the English River, Lac Seul and Lake St Joseph. The Board was created following a report in 1917 by the International Joint Commission which was established under a treaty made in 1909 between the United States and Great Britain. The membership of the Board consists of a Federal representative and one from Manitoba and two from Ontario. One Ontario member is appointed by the Ontario Hydro. The other is R. M. Odell, Head, Consultative Services, Conservation Authorities and Water Management Branch, Ministry of Natural Resources, with R. B. Chang as alternate member.

The Board has the duty to secure severally and at all times the most dependable flow and the most advantageous and beneficial use of the Winnipeg and English Rivers and, for the purpose, to regulate the overflow of:—

(a) Lake of the Woods, to levels recommended by the International Joint Commission as agreed by Canada and the United States;

(b) Lac Seul, to levels recommended by the Board and approved by the Lieutenant-Governors in Council of Ontario and Manitoba and to regulate the flow into Lac Seul through the Lake St. Joseph diversion.

(c) Winnipeg River between its junction with the English River and Lake of the Woods, and the English River between its junction with the Winnipeg River and Lac Seul; and

(d) Other waters of the watershed of the Winnipeg River as are placed under its jurisdiction by the Governor-General in Council and the Lieutenant-Governors in Council of Ontario and Manitoba.

THE LAC SEUL CONSERVATION ACT, 1928, provides for the execution of an agreement between the Minister of Lands and Forests and the Government of Canada regarding the construction of a conservation dam at the outlet of Lac Seul.

THE OTTAWA RIVER WATER POWERS ACT, 1943, ratifies and confirms an agreement between the Province of Ontario, the Province of Quebec, the Hydro-Electric Power Commission of Ontario and the Quebec Streams Commission respecting the development of water power on the Ottawa River.

THE SEINE RIVER DIVERSION, 1952, confirms the partial diversion of the Seine River and authorizes the completion and operation of the diversion by Steep Rock Iron Mines Limited.

THE NATIONAL RADIO OBSERVATORY ACT, 1962-3, provides for the transfer of administration and control of certain public lands in the Township of White, District of Nipissing to Canada for the maintenance and operation of a national radio observatory.

THE GANANOQUE LANDS ACT, 1961-2, vests certain lands in the town of Gananoque in the Crown and authorizes the sale of encroachments to adjoining owners for a fee of \$50.00 and the granting of the balance of the land.

THE ALGONQUIN PROVINCIAL PARK EXTENSION ACT, 1960-1, adds the public lands in the Geographic Townships of Bruton and Clyde in the Provincial County of Haliburton to the park subject to hunting.

THE MINERAL EMBLEM ACT, 1975, adopts the amethyst as the mineral emblem of the Province of Ontario.

THE MANITOBA-ONTARIO LAKE ST. JOSEPH DIVERSION AGREEMENT AUTHORIZATION ACT, 1958, provides for entry by Ontario and The Hydro-Electric Power Commission of Ontario into an agreement with Manitoba and The Manitoba Hydro-Electric Board in respect of the diversion of waters into the Winnipeg River and electrical power generated from such waters in Ontario and Manitoba.

MINING AND LANDS COMMISSIONER

Box 330, 24th Floor, 700 Bay Street, Telephone (416) 965-1824
Toronto, Ontario M5G 1Z6

Commissioner..... G. H. Ferguson, Q.C.

Administrative Assistant..... J. K. Kinsella

JUDGMENTS, ORDERS AND REPORTS

Year	Extensions For Work & Lease	Extensions For Tagging	Special Renewals Of Licences	Misc.	Total
1979	858	—	63	73	994
1980	1,046	1	74	60	1,181
1981	1,338	1	73	75	1,487
1982	1,430	—	80	154	1,664
1983	1,411	—	74	119	1,604

PROJECTED REVENUE FROM EXTENSION ORDERS

Year	No. Of Claims Prior To Default	Amount	No. Of Claims Relief From Forfeiture	Amount
1979	8,147	\$40,735	871	\$ 8,710
1980	8,434	\$42,170	694	\$ 6,940
1981	11,957	\$59,785	1,329	\$13,290
1982	13,692	\$68,460	1,801	\$18,010
1983	13,675	\$68,380	1,863	\$18,630

HEARINGS UNDER STATUTES OF THE MINISTRY

Year	Beach Protection Act	Conservation Authorities Act	Lakes and Rivers Improvement Act	Mining Act	Mining Tax Act	Other	Total
1979	—	11	1	9	3	—	24
1980	—	11	1	6	1	—	19
1981	—	4	1	13	—	—	18
1982	—	17	—	36	1	1	55
1983	—	16	1	27	—	—	44

MATTERS WITHDRAWN, ABANDONED OR TRANSFERRED TO SUPREME COURT

1979	—	8	—	—	1	—	9
1980	—	12	4	4	1	—	21
1981	—	1	—	3	—	—	4
1982	—	9	—	3	—	—	12
1983	—	3	—	9	—	—	12

ADMINISTRATION DIVISION

FINANCE, PLANNING AND EVALUATION GROUP

Room W-6347, Main Office	Telephone (416) 965-6148	
Executive Co-ordinator.....	D. M. Wood.....	W-6347 .....6148
Executive Assistant.....	Mrs. C. Caddell.....	W-6346 .....6147
Management Planning and Analysis		
Director.....	D. Johnstone.....	W-6350 .....4143
Systems Services		
Director.....	J. H. Findeis.....	W-4429 .....2750
Systems Co-ord. Mgr.....	C. K. Moulson.....	W-4426 .....5674
Manager, Data Base Co-ordinator.....	L. Bailey	W-4427 .. 3-1327
Manager, Systems	R. Seel.....	W-4428 .....5672

FINANCIAL SERVICES BRANCH

Room W-4325, Main Office	Telephone (416) 965-2761	
Branch Director.....	A. C. Goddard	W-4324 .....2761
Chief Accountant.....	A. R. Taylor	W-4326 .....2761
Accounts Payable Section	J. T. Tunnicliff.....	W-4302 .....2764
Licence Issuing Section.....	T. Headley.....	W-4342 .....5848
Payroll Section.....	C. P. Edward.....	W-4341 .....1473
Revenue Section	S. A. Perry.....	W-4443 .....2770
Financial Reporting and		
Expenditure Control Sect.....	R. Kerr (acting Mgr.).....	W-4322 .....1895
Financial Reporting & Claims	V. Ferrara	W-4321 .....1895
M.I.S. Implementation	I. A. Nott.....	W-4441 .....6840
Financial Methods Section.....	G. Jarzabek, Mgr.....	W-4328 .....1218
Financial Policy Development.....	E. V. Young, Mgr.....	W-4340 .....1033

REVENUE AND EXPENDITURES — in years ending March 31

Year	Budgetary Revenue	Budgetary Expenditure
1979	\$ 129,401,477	\$ 246,388,247
1980	202,825,624	279,799,068
1981	275,562,265	349,475,311
1982	160,546,904	363,253,018
1983	135,735,095	374,348,745

LANDS REVENUE — in years ending March 31

Year	Water Power	Crown Land Sales	Crown Land Rentals	Park Rentals & Fees	Pits and Quarries Licences	Land Use Permits
1979	\$ 16,132,257	\$ 762,394	\$ 741,831	\$ 41,672	\$ 109,175	\$ 440,550
1980	19,279,984	1,899,009	577,784	57,788	116,625	479,869
1981	19,158,930	2,936,644	754,447	131,733	114,125	478,788
1982	20,604,400	2,243,525	947,993	125,483	159,275	558,492
1983	23,613,132	1,690,312	994,362	—	162,750	647,007

Year	Assignments & Extension Fees	Cons. Authorities Federal Agreements	Return of Grants	Recovery Prior Years Land Acquisition	Misc.	Total
1979	\$ 29,906	\$ 575,491	\$ 127,846	\$ 5,402	\$ 40,437	\$ 19,006,961
1980	22,045	133,317	54,228	94,270	98,218	22,813,137
1981	85,131	413,588	69,325	2,243	270,350	24,415,304
1982	16,300	511,589	469,201	103,966	87,549	25,827,773
1983	20,453	1,103,543	148,277	2,791	115,146	28,497,773

TIMBER REVENUE — in years ending March 31

Year	Stumpage Charges	Timber Area Charges	Nursery Tree Sales	Agreement Forest	Federal Agreement	Misc.	Total
1979	\$ 37,193,516	\$ 1,832,965	\$ 242,380	\$ 494,525	\$ 795,530	\$ 96,966	\$ 40,655,882
1980	42,729,326	5,471,287	235,525	635,368	26,344	86,385	49,184,235
1981	47,266,552	4,401,176	609,097	282,646	1,885	92,587	52,653,943
1982	38,204,534	4,437,802	818,152	354,783	9,751	68,697	43,893,719
1983	39,137,899	3,435,840	943,801	539,326	—	64,177	44,121,043

MINING REVENUE — in years ending March 31

—112

Year	Licences and Permits	Mining Claims	Sale of Mining Lands	Rentals	Royalties	Taxes	Forfeitures	Laboratory Fees	Rec. of Prior Years Expenditure	Federal Agreement	Total
1979	\$ 60,875	\$ 254,066	\$ 8,236	\$ 827,911	\$ 1,380,839	\$ 42,372,537	\$ 3,360	\$ 80,499	\$ 125,394	\$ —	\$ 45,113,717
1980	103,787	362,937	6,860	948,112	1,539,814	99,674,524	3,330	125,936	31,891	—	102,797,191
1981	111,328	639,844	11	847,501	2,380,790	161,061,781	4,060	108,408	—	—	165,153,723
1982	319,952	537,731	3,191	582,818	2,250,102	55,411,740	2,840	153,161	—	—	59,261,535
1983	412,918	528,050	1,375	1,695,196	6,101,775	26,178,380	1,980	163,410	—	1,187,031	36,270,115

PROVINCIAL PARKS REVENUE — in years ending March 31

Year	Permits	Campsites Permits	Concessions Rental	St. Lawrence Lic. & Permits	Federal Agreement	St. Clair Parkway Commission	Misc.	Total
1979	\$ 913,499	\$ 5,238,214	\$ 371,071	\$ 1,791,382	\$ 288,258	\$ —	\$ 168,961	\$ 8,771,385
1980	971,351	5,325,333	450,018	1,896,935	1,337,144	115,000	100,850	10,196,631
1981	935,283	5,585,691	477,926	1,931,825	2,448,976	15,000	133,917	11,528,618
1982	1,215,227	5,519,852	356,984	1,933,584	1,572,055	18,000	188,964	10,804,666
1983	1,195,392	6,555,071	402,132	—	190,089	1,500	162,470	8,506,654

FISH AND WILDLIFE REVENUE — in years ending March 31

Year	Non-Res. Angling	Other Fishing	Commercial Fishing	Non-Res. Hunting	Resident Bear	Resident Deer	Resident Moose	Resident Groundhog	Res (Gun) Hunting
1979	\$ 5,825,469	\$ 104,533	\$ 96,832	\$ 1,935,617	\$ 12,489	\$ 886,363	\$ 1,235,920	\$ 80,624	\$ 1,022,792
1980	5,750,812	111,185	104,928	2,260,030	13,359	1,129,511	1,436,576	74,068	1,502,536
1981	7,513,033	152,757	122,301	1,605,102	87,738	1,184,553	1,483,473	100,653	1,629,245
1982	7,610,191	156,957	117,419	1,490,490	122,105	1,296,196	1,375,086	83,677	1,584,495
1983	7,466,134	169,829	148,254	1,382,798	132,636	1,362,761	1,719,562	78,807	1,580,569

Year	Dog	Trappers	Fur Dealers	Hunter Exam Fee	Prov. Park Hunting	Miscellaneous Fees and Licences	Royalty Game	Agreements		
								Outside Agencies	Federal	Total
1979	\$ 17,252	\$ 62,177	\$ 7,750	\$ 101,613	\$ 67,312	\$ 97,424	\$ 562,619	\$ 1,070	\$ 309,919	\$ 12,427,775
1980	37,179	66,730	8,170	88,797	64,408	153,246	931,496	—	266,117	13,999,328
1981	76,998	69,635	8,400	90,006	66,088	118,488	1,201,461	76,016	291,475	15,877,422
1982	75,957	65,387	8,950	85,722	53,400	140,728	1,159,433	123,947	361,447	15,911,587
1983	73,258	62,923	9,675	86,178	67,264	229,813	729,477	165,750	80,254	15,545,942

OTHER CASH RECEIPTS — in years ending March 31

Year	Sale of Maps Publications etc.	Fire Costs Recovered	House Rentals	Sale of Buildings	Sale of Van and Equipment	Con-fiscated Articles	Frost Centre	Non-Recurring Items and Miscellaneous	Board and Lodging	Total
1979	\$ 1,931,496	\$ 391,611	\$ 436,711	\$ 23,784	\$ 224,918	\$ 32,445	\$ 230,637	\$ 154,155	\$ —	\$ 3,425,757
1980	2,253,723	67,284	452,803	26,840	420,736	51,918	245,126	316,672	—	3,835,102
1981	2,265,256	651,527	415,824	14,513	1,648,707	21,714	296,127	378,010	241,577	5,933,255
1982	2,300,366	670,538	450,197	5,112	479,650	46,149	340,651	379,107	175,854	4,847,624
1983	686,651	306,055	411,266	30,012	393,846	59,412	401,061	301,008	204,257	2,793,568

ADMINISTRATION DIVISION
Finance, Planning and Evaluation Group

INTERNAL AUDIT SERVICES BRANCH

Room W-4633, Main Office Telephone (416) 965-4087

Branch Director.....	A. A. Ward	W-4637.....4087
Main Office Audit Manager	D. L. Lay	W-4634.....4088
Northeastern Audit Section 875 Queen Street East Sault Ste. Marie, P6A 2B3 Senior Auditor	W. C. Johnstone	(705) 949-1231 (IC 842)
Northwestern Audit Section Box 5000 Thunder Bay, P7C 5G6 Audit Manager	N. D. Nurse	(807) 475-1211 (IC 844)
Southern Audit Section c/o District Office Maple, L0J 1E0 Audit Manager	D. A. Dooling	(416) 832-2761 Ext. 281

BUDGET AND PROGRAM EVALUATION BRANCH

Room W-6540, Main Office Telephone (416) 965-4218

Branch Director.....	M. W. Cox	W-6547	4218
Special Adviser	D. M. Powers	W-6548	4210
Program Planning, Budget and Control Section			
Manager	D. Cope	W-6540	9052
Budget Supervisor	J. Heywood	W-6549	5539
Budget Officer	K. Stahl	W-6549	5539
Control Supervisor	R. McDougal	W-6549	7034
Control Accountant	P. Chen	W-6549	7034
Senior Adviser	J. Botterill	W-6543	7086
Group Adviser	P. King	W-6549	7088
Group Adviser	S. Gourlay	W-6549	7088
Division Adviser	L. Petterson	W-6549	7152
Financial Planning and Program Evaluation			
Manager	P. Wormwell	W-6546	7182
Senior Program Officer	S. Fasken	W-6545	7409
Senior Program Officer	S. Mathewson	W-6545	7409
Special Employment Co-ordinator	D. Cherry	W-6311	7717
BILD			
Program Officer	A. Ireland-Smith	W-6544	7512

NORTHWESTERN REGION

D. R. Johnston	Regional Director
W. J. Straight	Deputy Reg. Director
D. R. Fortner	Deputy Reg. Director
G. N. McGeachy	Admin. Co-ordinator
K. J. Chambers	Biologist
R. J. Kincaid	Fire Mgt. Officer
G. N. Warner	Safety Officer
R. C. Beard	Geologist
D. A. Janes	Geologist
Sioux Lookout	737-1291
M. Durocher	Geologist
Red Lake	727-2252

Box 5160, 808 Robertson St., Kenora Ont. P9N 3X9.....	Phone (807) 468-3111
A. G. Mathews	Forester
G. G. Pyzer	Lands Co-ordinator
A. A. Gordon	Parks & Rec. Co-ord.
S. O. Russell	Eng. Services Co-ord.
W. S. Mathew	Mining Lands Admin.
A. Hanson	Mining Recorder
Sioux Lookout	737-2100
A. S. Rivett	Mining Recorder
Red Lake	727-2250

Region Service Centre, G. M. Fenelon, Box 850, Dryden	Phone (807) 937-4402
Dryden Forest Station, T. R. Myland, Box 90, Wabigoon	Phone (807) 938-6326

KENORA DISTRICT

Box 5080, 808 Robertson St., Kenora, Ont. P9N 3X9.....	Phone (807) 468-9841
D. B. McGregor	District Manager
R. G. McCue	Administration
D. Philippi	Field Services
G. K. Winterton	Fish & Wildlife
W. H. Mills	Forests
T. J. Lunny	Lands
R. W. Paterick	Parks

FORT FRANCES DISTRICT

922 Scott Street, Fort Frances, Ont. P9A 1J4	Phone (807) 274-5337
J. K. Cleaveley	District Manager
B. Y. Katerick	Administration
S. E. Cameron	Field Services
E. J. Swift	Fish & Wildlife & Parks
A. P. Matiece	Forests
C. E. Horne	Lands

SIOUX LOOKOUT DISTRICT

Box 309, Sioux Lookout, Ont. POV 2T0	Phone (807) 737-1140
A. J. Stewart	District Manager
W. L. Bertrand	Administration
H. D. Morrison	Field Services
A. A. Martin	Fish & Wildlife
J. M. McIntyre	Forests
F. E. Brown	Lands & Parks

DRYDEN DISTRICT

Box 3000, Ontario Govt. Bldg., Dryden, Ont. P8N 3B3	Phone (807) 223-3341
G. M. Tupling	District Manager
J. Hamilton	Administration
A. MacDonald	Field Services
F. D. Kennedy	Forests
H. Gibbard	Fish & Wildlife
D. Lindstrom	Lands & Parks

RED LAKE DISTRICT

Box 323, Red Lake, Ont. POV 2M0	Phone (807) 727-2531
E. W. Everley	District Manager
B. A. Larkin	Administration
B. A. Sandilands	Fish & Wildlife
P. R. Gagnon	Forests
T. E. Campbell	Field Services
E. R. Keast	Lands

IGNACE DISTRICT

Box 448, Ignace, Ont. P0T 1T0	Phone (807) 934-2233
T. E. Dodds	District Manager
W. A. Brunton	Administration
P. R. Croskery	Fish & Wildlife
B. Ferguson	Forests
J. D. Bond	Field Services
P. J. Pincombe	Lands, Parks

NORTH CENTRAL REGION

G. P. Elliott	Regional Director	Box 5000, Ontario Government Building
L. M. Affleck.....	Deputy Reg. Director	435 James St. South, Thunder Bay 'F'
W. Hendry.....	Deputy Reg. Director	Ont. P7C 5G6 Phone (807) 475-1261
J. D. Chadwick	Admin Co-ord .....1221	
R. T. Thomson	Biologist .....1231	
A. B. Johnson	Fire Mgt. Officer.....1241	R. B. Adamson Engineer.....1301
J. T. Rudolph	Forester.....1251	D. J. Murray Lands Co-ord.....1321
A. W. Currie	Parks-Rec. Co-ord..1281	K. G. Fenwick Geologist.....1331
M. N. Kantymir.....	Personnel .....1201	
Dorion Trout Rearing Station, F. S. Watson.....		Phone (807) 857-2322
Regional Fire Centre, L. R. Hutchinson		Phone (807) 475-1405
Thunder Bay Forest Station, A Wynia.....		Phone (807) 557-6409

THUNDER BAY DISTRICT

Box 5000, Thunder Bay 'F', Ont.	
P7C 5G6	Phone (807) 475-1221
D. E. McHale	District Manager
R. G. Griffin.....	Administration
(vacant).....	Field Services
H. D. Howell.....	Fish & Wildlife
R. G. Klein	Forests
T. J. Leveque.....	Parks & Rec.
J. W. Suttie.....	Lands

ATIKOKAN DISTRICT

108 Saturn Avenue, Atikokan, Ont.	
POT 1C0.....	Phone (807) 597-6971
A. M. Harjula.....	District Manager
B. A. Prince.....	Administration
R. N. Boyle.....	Field Services
B. H. Gibson.....	Fish & Wildlife
R. J. White	Forests
D. H. Elder.....	Lands & Parks
M. Horan	Fire Control

TERRACE BAY

Box 280, Terrace Bay, Ont.	
POT 2W0	Phone (807) 825-3205
P. A. Strassburger ..	District Manager
G. K. Sidhu	Administration
R. R. Cockerline.....	Field Services
J. A. Chappel.....	Fish & Wildlife
T. B. Scott	Lands & Parks
Manitouwadge Work Centre	
Box 309, Manitouwadge, Ont.	
POT 2C0.....	Phone (807) 826-3225
R. Waito	Forests
C. J. Currie	Fire Control

GERALDTON DISTRICT

Box 640, Geraldton, Ont.	
POT 1M0.....	Phone (807) 854-1030
E. H. Stone.....	District Manager
L. S. Morrow	Administration
E. P. Herrington	Field Services
W. J. Cook	Fish & Wildlife
D. Jovic	Forests
A. Hoshino	Lands & Parks

NIPIGON DISTRICT

Box 970, Nipigon, Ont.	
POT 2J0.....	Phone (807) 887-2120
G. O. Koistinen	District Manager
M. Wilson	Administration
W. R. Doyon	Field Services
L. Townes	Fish & Wildlife
G. R. Swant.....	Forests
D. Bean	Lands & Parks

NORTHERN REGION

R. Riley.....	Regional Director
L. H. Lingenfelter....	Deputy Reg. Director
R. I. Thompson	Admin. Co-ord.
J. Young.....	Biologist
H. I. Mattson.....	Parks & Rec. Co-ord.
J. S. Dougan.....	Personnel Co-ord.
C. Roswalka.....	Safety Officer
4 Govt. Rd. E., Kirkland Lake, Ont. P2N 1A1.....	Phone (705) 567-5421
R. C. Barty	Operations Manager
Swastika Forest Station, L. J. Forcier	
Hill's Lake Trout Rearing Station, P. Graf.....	

COCHRANE DISTRICT

Box 730, 2 Third Ave., Cochrane, Ont. P0L 1C0.....	Phone (705) 272-4365
G. A. Wright.....	District Manager
G. Nantel.....	Administration
A. C. Hutchinson	Field Services
W. Therriault.....	Outdoor Rec.
J. Starr	Forests
F. Wright	Lands

CHAPLEAU DISTRICT

34 Birch Street, Chapleau, Ont. P0M 1K0.....	Phone (705) 864-1710
R. Cleroux	District Manager
O. E. Crawford.....	Administration
J. R. Russell.....	Field Services
G. A. Black	Fish & Wildlife
P. K. Bidwell	Forests
J. P. Dick	Lands
G. W. Dingee.....	Parks & Rec.

GOGAMA DISTRICT

Box 129, Gogama, Ont. P0M 1W0	Phone (705) 894-2000
C. Dionne.....	District Manager
R. Fink.....	Administration
M. Sitts	Field Services
(vacant).....	Fish & Wildlife
C. Mason	Forests
D. Stewart	Lands & Parks

HEARST DISTRICT

631 Front St., Hearst, Ont. P0L 1N0.....	Phone (705) 362-4346
C. E. Emblin.....	District Manager
W. C. Trowsse	Administration
L. G. Woods.....	Field Services
S. St. Jules.....	Fish & Wildlife
D. Stillar	Forests (362-4264)
M. J. Girouard.....	Lands & Parks

Box 3000, 140 Fourth Ave., Cochrane, Ont. P0L 1C0.....	Phone (705) 272-4287
D. W. Schafer	Deputy Reg. Director
60 Wilson Avenue, Timmins, Ont. P4N 2S7.....	Phone (705) 267-1401
W. E. Belisle.....	Fire Management
W. O. Mackasey	Mineral Res. Co-ord.
F. J. Wilson	Lands Co-ord.
T. Isherwood	Forester
M. S. Paradis	Engineer
	Phone (705) 642-3255
	Phone (705) 544-2834

KAPUSKASING DISTRICT

6 Government Road, Kapuskasing, Ont. P5N 2W4.....	Phone (705) 335-6191
R. G. Lightheart	District Manager
L. Keller.....	Administration
R. Carriere	Field Services
C. Jessop.....	Fish & Wildlife
K. Buck	Forests
D. Miller.....	Lands & Parks

KIRKLAND LAKE DISTRICT

Box 129, Swastika, Ont. P0K 1T0.....	Phone (705) 642-3222
J. E. Hamilton	District Manager
G. E. Allick	Administration
R. Landry	Field Services
L. Chamberlin	Fish & Wildlife
B. I. Thompson	Forests
J. A. Colquhoun.....	Lands
W. B. Hill.....	Parks

TIMMINS DISTRICT

896 Riverside Drive, Timmins, Ont. P4N 3W2.....	Phone (705) 267-7951
A. F. Papineau	District Manager
V. A. Mathieu	Administration
D. E. Shewen	Field Services
T. Corbett.....	Fish & Wildlife
D. F. Jefferson	Forests
C. R. Biggar.....	Lands & Parks

MOOSONEE DISTRICT

Box 190, Moosonee, Ont. P0L 1Y0	Phone (705) 336-2987
S. J. Toole.....	District Manager
L. Bent	Administration
G. F. McAuley.....	Field Services
K. G. Abrahams.....	Biologist
W. R. Lannin	Outdoor Rec.
W. A. Hutchison.....	Lands

NORTHEASTERN REGION

M. A. Klugman..... Regional Director
 D. J. Vance..... Deputy Reg. Director
 F. Valquette..... Admin. Co-ord.
 C. H. Bennett..... Personnel
 A. W. McClellan..... C.A. Prog. Spvr.
 (vacant)..... Mining Lands Admin.

Sault Ste. Marie (705)
 M. V. St. Jules..... Mining Rec. 254-6884
 G. M. Bennett..... Geologist 942-1414

199 Larch Street, Sudbury, Ont.
 P3E 59P Phone (705) 675-4120
 V. C. Miller Mining Recorder
 P. E. Giblin..... Mineral Res. Co-ord.
 D. Fudge..... Mining Lands Co-ord.
 J. L. Canfield Fire Mgmt. Co-ord.
 J. R. Chevalier Biologist
 H. Walsh Engineer
 W. C. Stevens Forester
 E. A. Wright..... Lands Co-ord.
 C. Clark Parks-Rec. Co-ord.

Tarentorus Trout Rearing Station, D. V. Storms (S.S. Marie) Phone (705) 253-8953
 North Bay Trout Rearing Station, B.A. Marchant (North Bay) Phone (705) 663-2311
 Sandfield Fish Hatchery, G. Clarke (Espanola) Phone (705) 859-3340

SAULT STE. MARIE DISTRICT
 Box 130, 69 Church St., S.S. Marie, Ont.
 P6A 5L5 Phone (705) 949-1231
 J. H. Sellers District Manager
 H. J. Smith Administration
 L. G. Bell..... Fire Control
 E. A. Pozzo Fish & Wildlife
 B. Smith Forests
 I. J. Valentine Lands & Parks

SUDBURY DISTRICT
 Box 3500, Stn. A, Sudbury, Ont.
 P3A 4S2 Phone (705) 522-7823
 J. A. Simpson District Manager
 M. H. Jackson..... Administration
 F. C. Shaver..... Field Services
 G. J. Haarmeyer Fish & Wildlife
 D. R. Potvin Forests
 M. K. Smith Lands
 D. H. Brunette..... Parks

NORTH BAY DISTRICT
 Box 3070, North Bay, Ont.
 P1B 8K7 Phone (705) 474-5550
 E. Rogers District Manager
 G. E. Lacelle Administration
 K. T. Fuller Field Services
 M. R. Wolfe Fish & Wildlife
 D. E. Honeyborne... Forests
 R. V. Coulombe Lands
 H. J. Edmundson.... Parks

BLIND RIVER DISTRICT
 Box 190, 62 Queen St., Blind River, Ont.
 P0R 1B0 Phone (705) 356-2234
 R. A. Lessard District Manager
 F. McWhinnie Administration
 W. J. Davis..... Field Services
 S. B. Woodside..... Fish & Wildlife
 C. F. Husk..... Forests
 R. H. Wood Lands
 G. W. Connell Parks

WAWA DISTRICT
 Box 1160, Wawa, Ont.
 P0S 1K0 Phone (705) 856-2396
 E. E. Murphy District Manager
 Mrs. J. M. Kern Administration
 A. J. Bull Field Services
 E. R. Thomas Fish & Wildlife
 C. K. Sumi..... Forests
 E. V. Uhler..... Lands
 J. T. Stott..... Parks

ESPAOLA DISTRICT
 Box 1340, 148 Fleming St., Espanola, Ont.
 P0P 1C0 Phone (705) 869-1330
 E. N. Arbuckle District Manager
 Mrs. S. Catling Administration
 D. R. Hughson Outdoor Rec.
 H. A. Liljalehto Forests
 D. C. Carnochan.... Lands

TEMAGAMI DISTRICT
 Box 38, Temagami, Ont.
 P0H 2H0 Phone (705) 569-3622
 R. G. McGee..... District Manager
 (vacant)..... Administration

H. G. Smith Field Services
 (vacant)..... Forests
 R. B. Sinclair Lands & Parks
 S. T. Flemming..... Fish & Wildlife

ALGONQUIN REGION

R. M. Christie Regional Director
 A. E. Walroth Deputy Reg. Director
 J. H. Lever Deputy Reg. Director
 J. Carswell Admin. Co-ord.
 C. W. Douglas Biologist
 A. P. Stephen Engineer
 B. Petman Fire Mgt. Officer

Box 9000, Brendale Square, Huntsville, Ont.
 P0A 1K0 Phone (705) 789-9611

J. F. Christian Forester
 W. J. Logan Geologist
 J. A. van der Meer. Lands Co-ord.
 G. M. Moroz Parks & Rec. Co-ord.

Pembroke Trout Rearing Station, A. G. Moore Phone (613) 687-5935
 Skeleton Lake Fish Hatchery, M. Bohm Phone (705) 769-3731
 Haliburton-Hastings Fisheries Assessment Unit Phone (613) 332-3940

PARRY SOUND DISTRICT

4 Miller Street, Parry Sound, Ont.
 P2A 1S8 Phone (705) 746-4201
 W. J. Lovering District Manager
 G. F. Walter Administration
 C. R. Mumford Field Services
 J. G. Gardner Fish & Wildlife
 G. C. Felton Forests
 J. A. Shalla Parks
 L. A. Connelly Lands

BANCROFT DISTRICT

Box 500, Bancroft, Ont.
 K0L 1C0 Phone (613) 332-3940
 M. P. Barker District Manager
 F. Buchan Administration
 M. F. Rush Field Services
 V. B. Collins Fish & Wildlife
 F. J. Walker Forests
 D. W. McLennan Parks
 O. J. Fleming Lands
 H. Meyn Geologist

ALGONQUIN PARK DISTRICT

Box 219, Whitney, Ont.
 K0J 2M0 Phone (705) 637-2780
 G. R. Whitney Park Supt., Dist. Man.
 E. A. Dayment Administration
 R. W. Stewart Fish & Wildlife
 D. F. George Forests
 J. E. Elliott Lands
 L. L. Powell Park Operations
 B. A. Norris Field Services

PEMBROKE DISTRICT

Box 220, Riverside Drive, Pembroke, Ont.
 K8A 6X4 Phone (613) 732-3661
 L. J. Haas District Manager
 A. H. Plummer Administration
 C. R. Buske Field Services
 A. E. Armstrong Fish & Wildlife
 W. W. Wahl Forests
 E. N. McKenzie Lands & Mines
 G. D. Yarranton Parks

BRACEBRIDGE DISTRICT

Box 1138, Bracebridge, Ont.
 P0B 1C0 Phone (705) 645-8747
 H. P. Endress District Manager
 J. S. Purves Administration
 J. T. Matthews Field Services
 D. M. Brooks Fish & Wildlife
 G. K. Schultz Forests
 J. A. Bryant Lands
 R. G. Ellis Parks

MINDEN DISTRICT

Minden, Ont.
 K0M 2K0 Phone (705) 286-1521
 D. D. White District Manager
 R. E. Raby Administration
 T. C. Russell Field Services
 D. G. Atkinson Fish & Wildlife
 B. G. Cross Forests
 J. E. Dewey Lands & Parks

THE LESLIE M. FROST NATURAL RESOURCES CENTRE

Dorset, Ont. P0A 1E0 Phone (705) 766-2451
 G. A. Hamilton Director
 S. A. Williams A/Plan & Mgmt. Supt.
 H. Curnow Operations Supt.
 (vacant) Field Services
 W. A. Chambers Finance & Admin.
 T. G. Wright Food Services
 H. J. Barnhart Maint. Foreman

Specialists:
 D. C. Preston
 (acting)
 M. E. Buss
 C. K. Macdonald
 J. A. Stocking
 B. A. Martin
 Forestry
 Fish & Wildlife
 Recreation
 Lands
 A/Visitor Services

EASTERN REGION

J. R. Oatway	Regional Director	Provincial Government Building,
D. E. Gage.....	Deputy Reg. Director, Resources	Concession Road, Kemptville, Ont.
J. S. Anderson.....	Deputy Reg. Director, Services	K0G 1J0
W. B. Bowles	Admin. Co-ord.	Phone (613) 258-3413
D. G. Watton	Biologist	
J. D. Murray	Cons. Auth. Prg. Spvr.	W. G. Maslen.....Lands Co-ord.
J. R. Stork	Engineer	W. P. Barber.....Parks & Rec. Co-ord.
P. E. Anslow.....	Forester	T. W. Fletcher (acting) ...Mines Co-ord.
		J. W. Lloyd .....Field Services
		Co-ord.
Codrington Fish Hatchery, A. H. Draves.....		Phone (613) 475-2512
White Lake Fish Hatchery, K. Steele		Phone (613) 335-2115
Westport Fish Hatchery, G. E. Raine		Phone (613) 273-2106
G. Howard Ferguson Forest Station, A. J. Campbell.....		Phone (613) 258-3413

TWEED DISTRICT

Metcalfe Street, Tweed, Ont.	
K0K 3J0.....	Phone (613) 478-2330
R. N. Kervin.....	District Manager
G. J. O'Hearn	Administration
M. J. Williams (acting)..	Lands
J. C. Williamson	Outdoor Rec.
W. M. Fasken	Forests
W. J. Miller	Field Services
Dr. P. W. Kingston	Res. Geologist

CARLETON PLACE DISTRICT

10 Findlay Ave., Carleton Place, Ont.	
K7C 3Z6.....	Phone (613) 257-5735
J. R. Bailey.....	District Manager
G. Sanderson.....	Administration
J. D. McCready	Forests
D. G. Kennedy.....	Field Services
K. J. Schonauer	Parks
R. N. Jones	Fish & Wildlife
R. M. Rogers.....	Lands
M. A. MacDonald....	Mineral Resources

CORNWALL DISTRICT

Box 1749, 113 Amelia St. Cornwall, Ont.	
K6H 5V7.....	Phone (613) 933-1774
J. R. Morin	District Manager
W. J. Humphrys.....	Administration
P. A. McDonald	Fish & Wildlife
B. W. Warwick	Forests
K. E. Green	Field Services, Parks
B. W. McCue	Lands

NAPANEE DISTRICT

1 Richmond Blvd., Napanee, Ont.	
K7R 3S3.....	Phone (613) 354-2173
R. W. Beecher	District Manager
R. A. Armstrong.....	Administration
A. Denys	Forests, Field Serv.
D. N. Montgomery	Fish & Wildlife
(acting).....	Lands
R. Griffiths	Parks
J. C. Matheson	Mineral Resources
S. Thatcher	

BROCKVILLE DISTRICT

101 Water St. West, Brockville, Ont.	
K6V 5Y8.....	Phone (613) 342-8524
W. V. Hardy	District Manager
D. G. Gilmer.....	Administration
G. L. Penney	Fish & Wildlife
C. Coons.....	Forests
G. Tabobondune	Field Services & Lands & Parks

CENTRAL REGION

M. Fordyce.....	Regional Director	295	10670 Yonge Street, Richmond Hill, Ont.
A. D. Latornell.....	Dep. Reg. Director	297	L4C 3C9..... Phone (416) 884-9203
F. G. Shaw.....	Dep. Reg. Director	290	M. Narain..... Geologist
H. Tjoelker.....	Admin. Co-ord.	208	L. G. D. Thompson Mines Co-ord..... 232
J. B. Dawson	Biologist.....	282	T. Kurtz Service Engineer 216
J. J. McFadden.....	Cons. Auth. Co-ord.	206	J. T. Griffin Parks-Rec. Co-ord. 299
R. N. Staley.....	Forester	289	M. Groneng (acting) Lands Co-ord. 234

Midhurst Forest Station, Midhurst,C. R. Groves .....	.....	Phone (705) 728-6599
Orono Forest Station, Orono, B. Phillion.....	.....	Phone (416) 983-9147
Ontario Tree Seed Plant, Angus, B. D. Swaile .....	.....	Phone (705) 424-5311
Deer Lake Fish Hatchery, R.R. 1, Havelock, G. T. Cation.....	.....	Phone (705) 778-3391
Ringwood Fish Hatchery, C. N. Core .....	.....	Phone (416) 640-6204

MAPLE DISTRICT

Maple, Ont.

LOJ 1E0.....	Phone (416) 832-2761
I. B. Earl.....	District Manager..... 203
W. B. Pottelberg	Administration..... 300
D. M. Hogg	Fish & Wildlife..... 211
C. D. Simpson	Lands..... 208
M. Charbonneau.....	Parks..... 240
Si Dae Kim.....	Forests, Field Serv. ...224
B. Anderson.....	Mineral Resources ...210

HURONIA DISTRICT

Midhurst, Ont.

LOL 1X0.....	Phone (705) 728-2900
W. D. Mansell	District Manager
D. H. Poff	Administration
A. W. Smith	Fish & Wildlife
R. O. Brandes.....	Forests
D. R. MacArthur.....	Services
J. R. Winters	Parks
W. D. Mansell	Wasaga Project

NIAGARA DISTRICT

Box 1070, Highway No. 20, Fonthill, Ont.	.....
LOS 1E0	Phone (416) 892-2656
J. E. Dickenson.....	District Manager
A. J. Vos	Administration
E. A. Kraker	Forests, Field Serv.
P. J. Drysdale	Outdoor Recreation
J. Z. Fraser	Lands & Minerals

LINDSAY DISTRICT

322 Kent St West, Lindsay, Ont.

K9V 4T7	Phone (705) 324-6121
C. R. Gray.....	District Manager
A. V. Kaufman.....	Administration
P. A. Smith	Fish & Wildlife
G. Higham	Forests, Field Serv.
L. C. Selby	Lands & Minerals
G. Scott	Parks

CAMBRIDGE DISTRICT

Box 2186, Cambridge, Ont.

N3C 2W1	Phone (519) 658-9355
W. R. Catton	District Manager
B. J. DeGunst	Administration
T. Taylor	Fish & Wildlife
S. Yorgan	Forest Mgmt.
B. L. Houck.....	Parks
D. A. Routly.....	Lands & Minerals

SOUTHWESTERN REGION

N. D. Patrick	Regional Director	1106 Dearness Drive, London, Ont.
J. D. Parker.....	Deputy Reg. Director	N6E 1N9 Phone (519) 681-5350
V. G. Milne.....	Deputy Reg. Director	
D. W. Munch.....	Admin. Co-ord.	
H. A. Orr	Biologist	P. A. Palonen..... Mineral Resources
R. J. McClure.....	Cons. Auth. Prg.-Spvr.	J. A. Fingland..... Lands Co-ord.
P. H. Crook	Engineer	G. E. Martelle..... Parks & Rec. Co-ord.
E. F. Johnston.....	Forester	

Chatsworth Fish Hatchery, G. M. Durant.....	Phone (519) 794-2340
Normandale Fish Hatchery, W. A. Hooper	Phone (519) 426-3142
St. Williams Forest Station, A. A. Wynia	Phone (519) 586-3576
Petroleum Resources Lab, London, (vacant).....	Phone (519) 433-8431

CHATHAM DISTRICT

Box 1168, 435 Grand Ave West, Chatham, Ont. N7M 5L8	Phone (519) 354-7340
W. L. McNab.....	District Manager
(vacant).....	Admin., Eng. Services
H. Manson	Fish & Wildlife
K. Yaraskavitch.....	Forests
A. D. Carr.....	Parks
H. W. Rowe.....	Lands, Min. Resources
(vacant).....	Petroleum Resources

OWEN SOUND DISTRICT

611 Ninth Ave East, Owen Sound, Ont. N4K 3E4.....	Phone (519) 376-3860
R. W. Tippett.....	District Manager
M. Gobeil	Administration
S. A. Munroe.....	Fish & Wildlife
W. J. Lambie.....	Forests
R. J. Manley.....	Lands, Min. Resources
P. H. Baxter	Parks
E. G. Walker.....	Fire, Eng. Services

AYLMER DISTRICT

353 Talbot Street West, Aylmer, Ont. N5H 2S8	Phone (519) 773-9241
M. G. Lewis.....	District Manager
D. L. Clarke.....	Administration
G. R. Austin	Fish & Wildlife
W. C. Gilmore	Forest Resources
D. G. Ward.....	Parks, Lands Services
W. E. Lau	Mineral Resources

SIMCOE DISTRICT

645 Norfolk Street North, Simcoe, Ont. N3Y 3R2.....	Phone (519) 426-7650
M. F. McKenzie.....	District Manager
A. McGarrity.....	Administration
J. M. Collins.....	Parks, Fish & Wildlife
D. A. Scott	Forests
W. L. Edwards	Lands, Eng. Services
	Mineral Resources

WINGHAM DISTRICT

R. R. 5, Wingham, Ont. N0G 2W0	Phone (519) 357-3131
J. L. Hamill.....	District Manager
(vacant).....	Administration
W. A. Creighton	Parks, Fish, Wildlife
H. R. Lancaster.....	Forests
S. A. Buszynski.....	Lands, Field Services
T. R. Carter	Mineral Resources

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